

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☒

## 2. NAME OF OPERATOR

Chuska Energy Co.

## 3. ADDRESS OF OPERATOR

c/o 3E Company, Inc., Box 190, Farmington, NM 87401

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

2000' FSL &amp; 2080' FWL

At proposed prod. zone

same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

5120

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

5970

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4875 g.r.

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

## 22. APPROX. DATE WORK WILL START\*

1/15/84

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17	13 3/8	54.5	100	see attached for cement information
12 1/4	8 5/8	24	1300	
7 7/8	5 1/2	15.5	5970	

(see attached)

RECEIVED  
DEC 10 1983DIVISION OF  
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24.

SIGNED

*John Alexander*  
John Alexander

TITLE

Agent

DATE 12/8/83

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

12-14-83

COMPANY CHUSKA ENERGY COMPANY

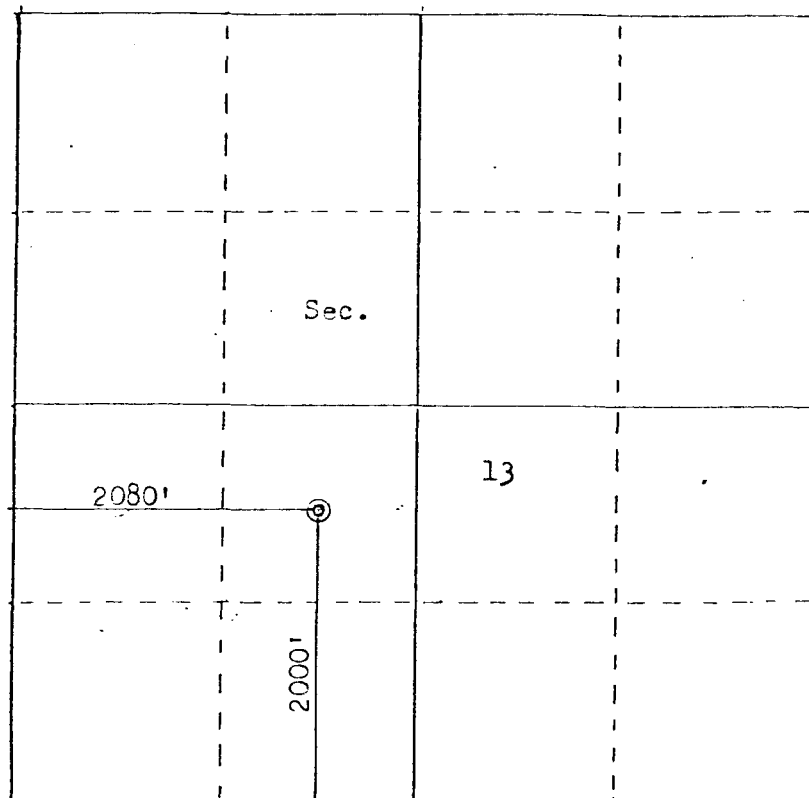
LEASE NAVAJO TRIBAL WELL NO. 23-13

SEC. 13, T. 40S, R. 24E

San Juan County, Utah

LOCATION 2000' FSL 2080' FWL

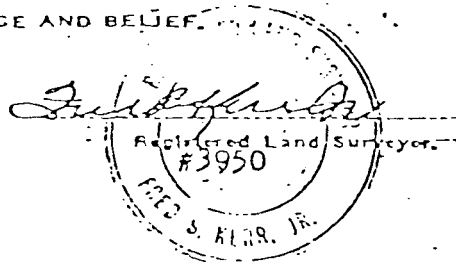
ELEVATION 4875 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-  
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

REAL:



SURVEYED November 11, 1983

FARMINGTON, N. M.

FORMATION INFORMATION AND  
DRILLING PRACTICES

CHUSKA ENERGY CO.  
Navajo Tribal No. 23-13  
NESW Sec 13-40S-24E  
San Juan Co., Utah

1. Surface Formation:

Morrison

2. Estimated Formation Tops:

Dechelly	2860
Organ Rock	2950
Hermosa	4770
Ismay	5610
Desert Creek	5770
Chimney Rock	5920
T.D.	5970

3. Estimated Depth of Anticipated Water, Oil, Gas or Minerals:

Oil	5610
Oil	5770

4. Proposed Casing Program:

0-100' 13 3/8", 54.5#/ft, ST & C, J-55 new casing; cement with 120 feet class "B" + 2%  $\text{CaCl}_2$  + 1/4 lb celophane flakes per sack

0-1300' 8 5/8", 24#/ft, ST & C, K-55 new casing; cement with 800 cubic feet 65-35 poz mix + 6% gel + 3%  $\text{CaCl}_2$  followed by 200 feet class "B" + 2%  $\text{CaCl}_2$ . Cement will be brought to surface.

0-5970' 5 1/2", 15.5#/ft, ST & C, K-55 new casing; cement with 450 cubic feet 50-50 poz mix + 2%  $\text{CaCl}_2$  + 10% salt + 0.8% fluid loss additive. Cement top at 4,000'.

5. Pressure Control Equipment - Blow Out Preventor:

The attached schematic shows the type of blowout preventor to be used while drilling. The unit will be tested to 800 psi prior to drilling from under the surface pipe.

6. Drilling Fluids:

DEPTH	TYPE	VIS.	WEIGHT	FLUID LOSS
0-1300'	Gel Lime	35-45	9.0	Not controlled
1300-4000'	Gel-chem	35-45	9.5	15cc
4000-5970'	Los solids	45-50	10.0	9 cc

7. Auxiliary Equipment:

- Bit float
- Stabbing valve to be used to drill pipe when kelly is not connected.

8. Logging - Coring - Testing Program:

Logging - Open hole:	IES, CNL, FDC
Mud:	4000' to t.d.

Testing : Possible in Lower Ismay and Desert Creek

Coring : None Planned

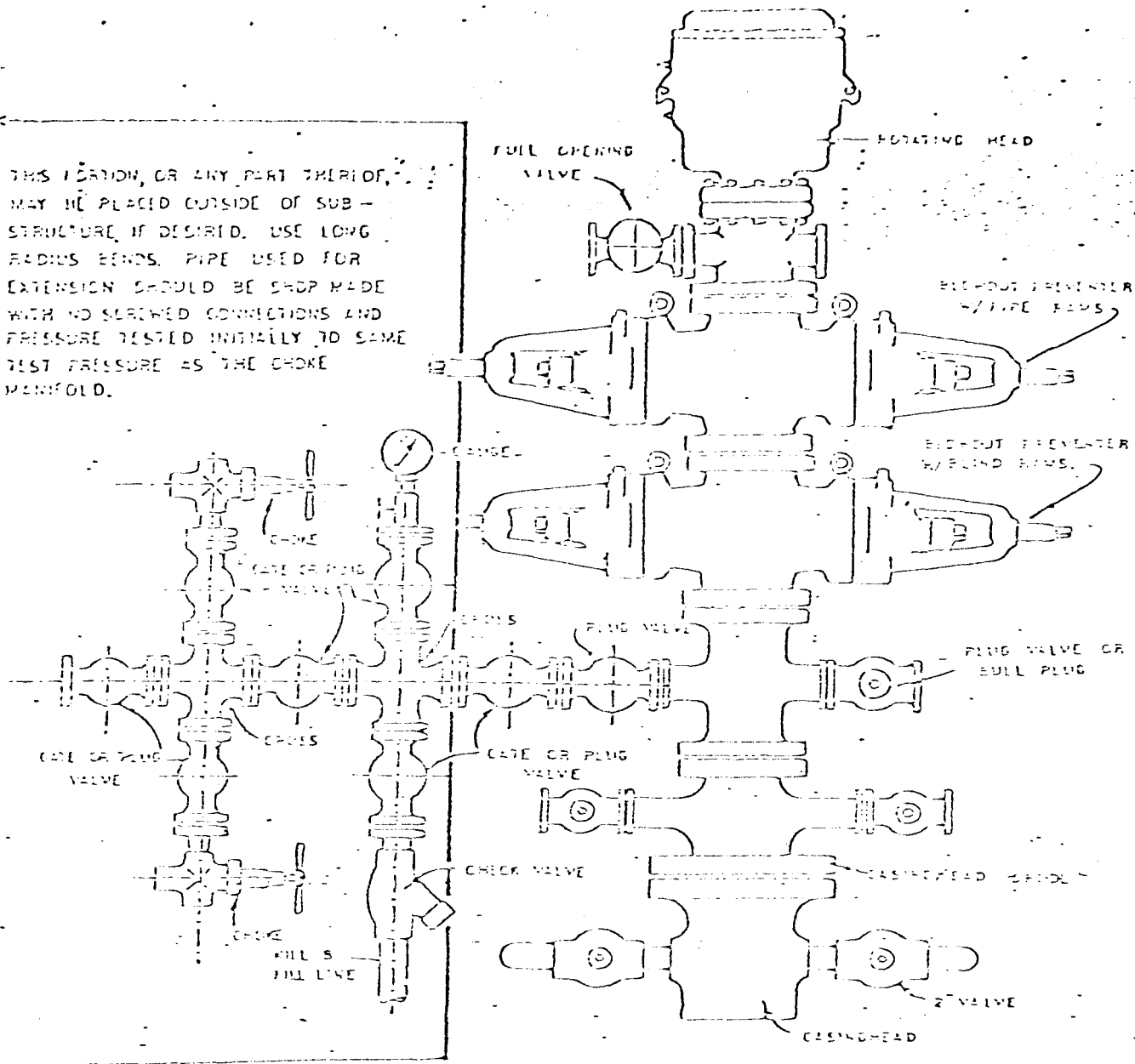
9. Abnormal Temperatures, Pressures or Potential Hazards:

None expected

10. Starting Date:

Anticipated starting date is January 15, 1984. Approximately 5 days will be required to build roads and location. Drilling will take about 15 days. Completion should be accomplished in 6 days.

THIS PORTION, OR ANY PART THEREOF, MAY BE PLACED OUTSIDE OF SUB-STRUCTURE, IF DESIRED. USE LONG RADIUS BENDS. PIPE USED FOR EXTENSION SHOULD BE SHOP MADE WITH NO SWELED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKE MANIFOLD.



BLOWOUT PREVENTER HOOKUP

SURFACE USE PLAN

CHUSKA ENERGY CO.  
Navajo Tribal No. 23-13  
NESW SEC 13-40S-24E  
San Juan Co., Utah

1. Existing Roads (shown in green)

The attached topographic map shows all existing roads within one mile of the proposed location. The access will be from Utah Hwy. 262 at the Aneth Trading Post.

2. Planned Access Road (shown in red)

The new access road will exit from the south side of an existing secondary road. Total length of new road is 900 feet. Maximum grade is 5%. No water bars, culverts or turnouts are needed.

3. Location of Existing Wells

All existing oil, gas, water, drilling and disposal wells are shown on the attached plat.

4. Location of Tank Batteries, Prod. Facilities & Prod. Gathering & Service Lines

All production facilities are to be contained within the proposed location site. The operation has no other facilities in the area.

5. Location and Type of Water Supply

Fresh water for drilling will be trucked from the San Juan River, 10 miles South of the location.

6. Source of Construction Materials

Any gravel or other construction material that can not be obtained from the excess accumulated from building the location will be purchased from the Navajo Tribe.

7. Methods of Handling Waste Disposal

All trash will be carried to a land fill or burned. All non burnable materials (drilling fluids, cuttings, chemicals) will be stored in the reserve pit and then buried when they have dried. Any oil produced while drilling will be trucked from the location prior to leaving pit to dry out. Pits will be completely fenced during drying time, then backfilled with dirt prior to preparing the location from production or abandonment.

8. A portable chemical toilet will be supplied for human waste.

9. Ancillary Facilities - No ancillary facilities are planned.

10. Well Site Layout - the attached layout shows the drilling rig with all associated facilities. Cut and fill required is also indicated.

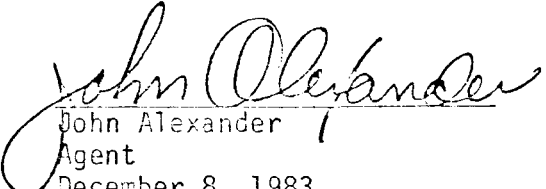
11. Plans for Restoration of Surface

Restoration of the wellsite and access road will begin within 90 days of well completion, weather permitting, and if required by private land owner. Should well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed up and leveled. Both drillsite and road will have any topsoil replaced and will be reseeded when germination of seeds can take place. In either case, cleanup of the site will include burning of any safely burnable

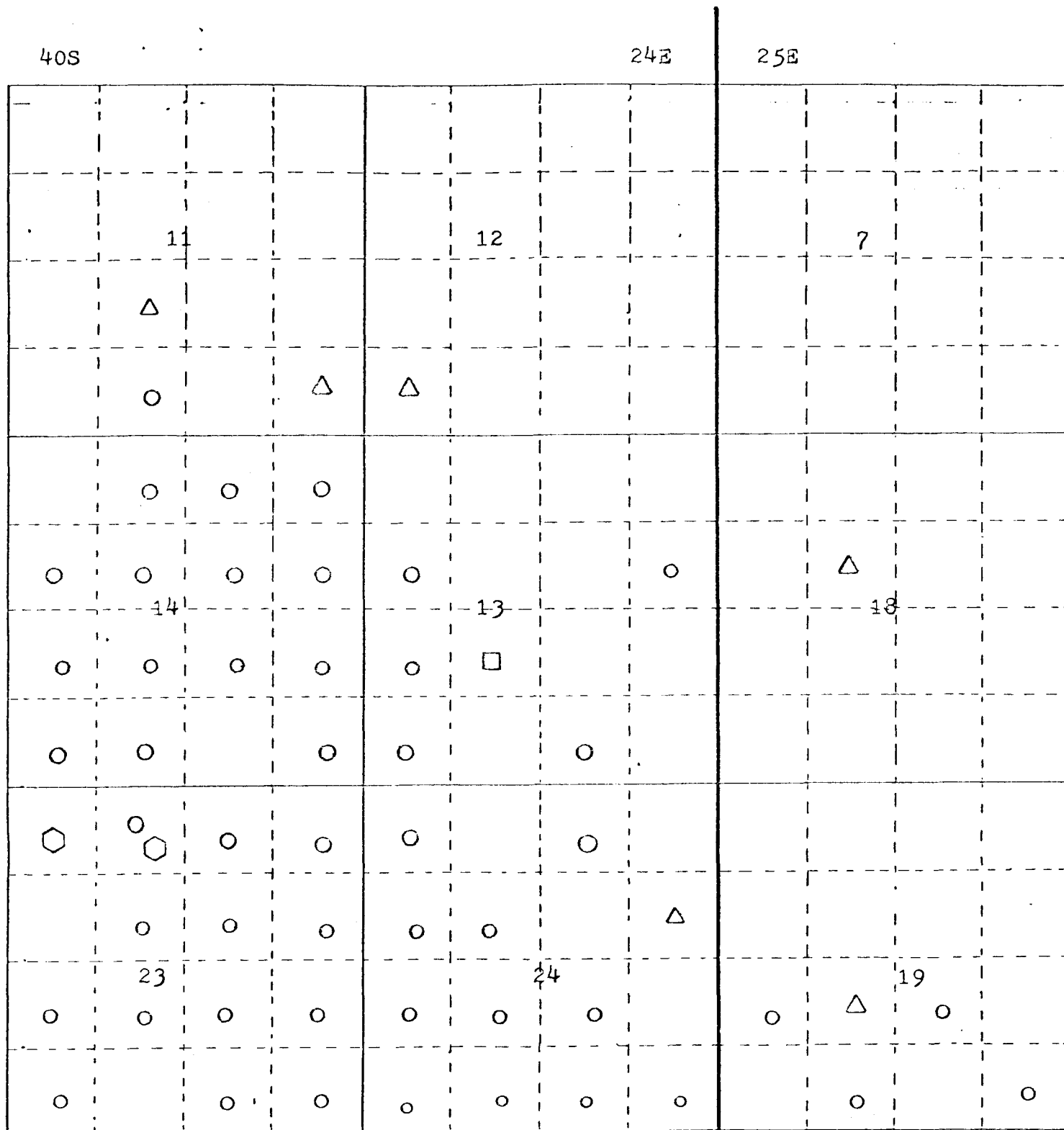


material, filling of all pits, carrying away of all nonburnable material and any chemicals that cannot be safely buried, and the hauling off of any oil that may have accumulated on the pits while drilling. A burn permit will be acquired if necessary.

12. This location is 2 1/2 miles west of Hovenweep National Monument. The area is flat with a slight south east slope. Native brush and grasses cover the area. The soil is very sandy. There are no residences in the immediate area.
13. John Alexander  
3E Company, Inc.  
P.O. Box 190  
Farmington, NM 87499  
Phone: 505-326-1135
14. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Chuska Energy Co. and its contractors and sub contractors in conformity with this plan and the terms and conditions under which it is approved.

  
John Alexander  
Agent  
December 8, 1983

JA:kj

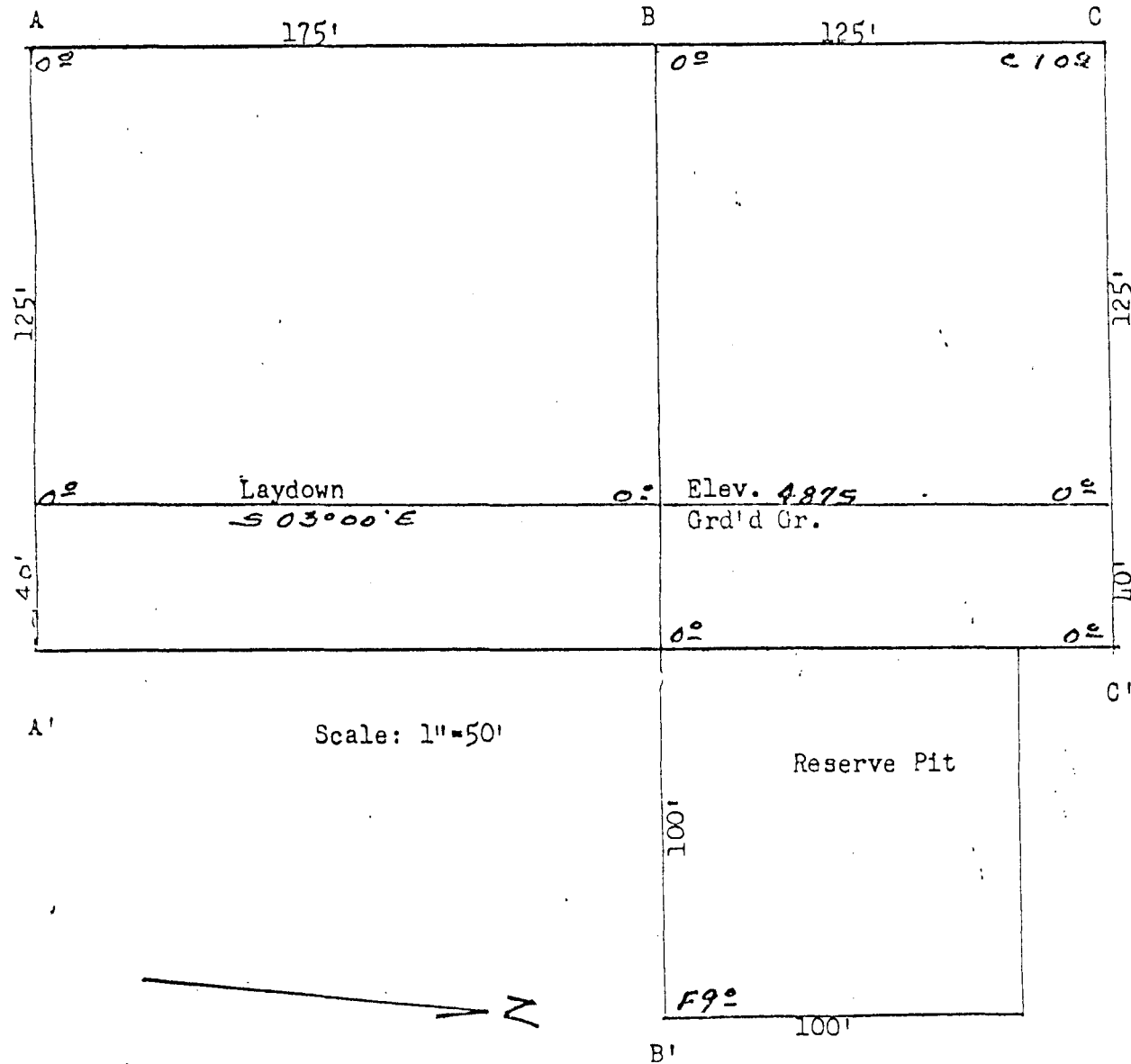


- producer
- ⬡ injector
- △ plugged
- subject well

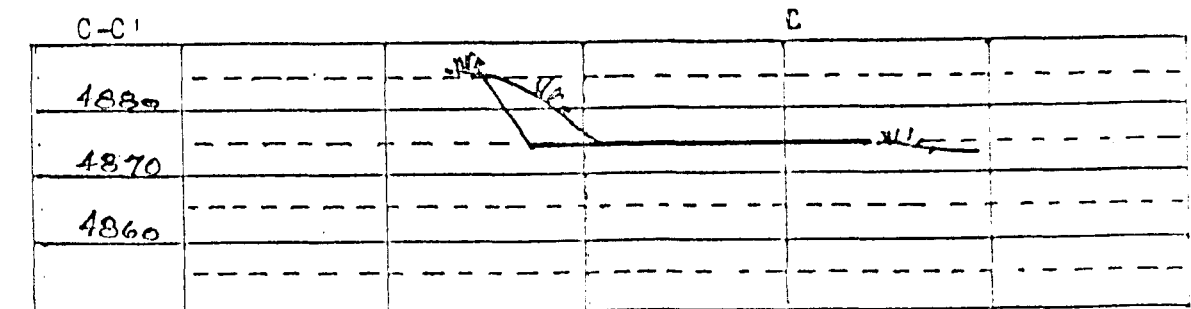
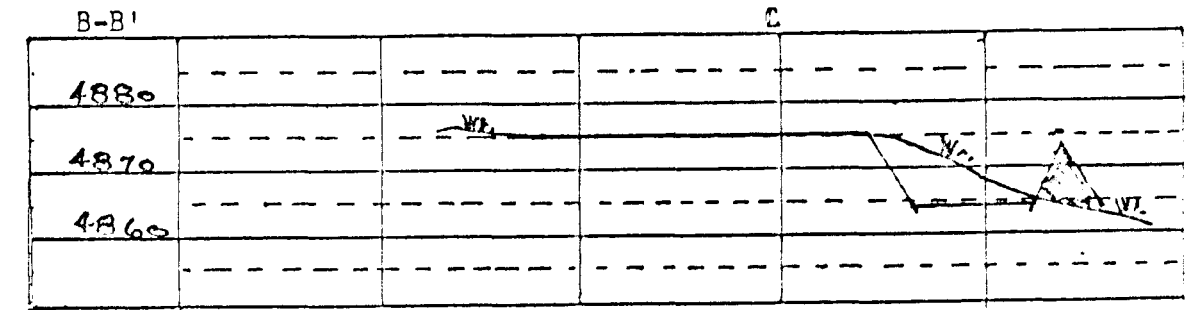
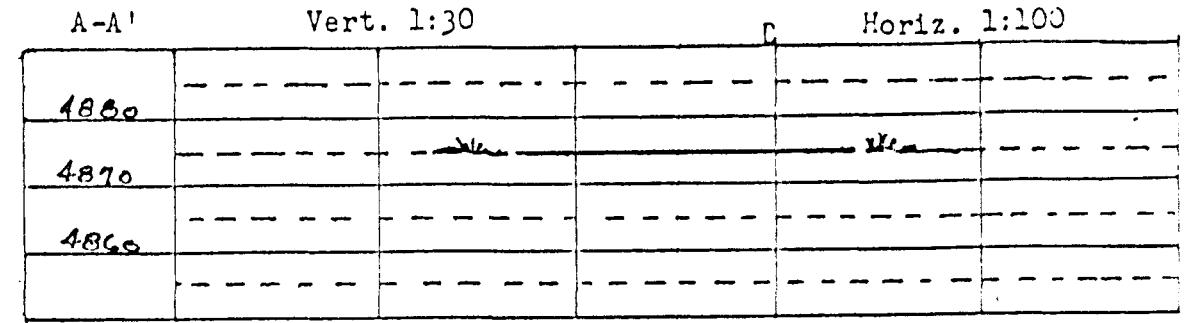
Chuska Energy Co.  
Navajo Tribal 23-13  
NESE 13-40S-24E  
San Juan, Utah

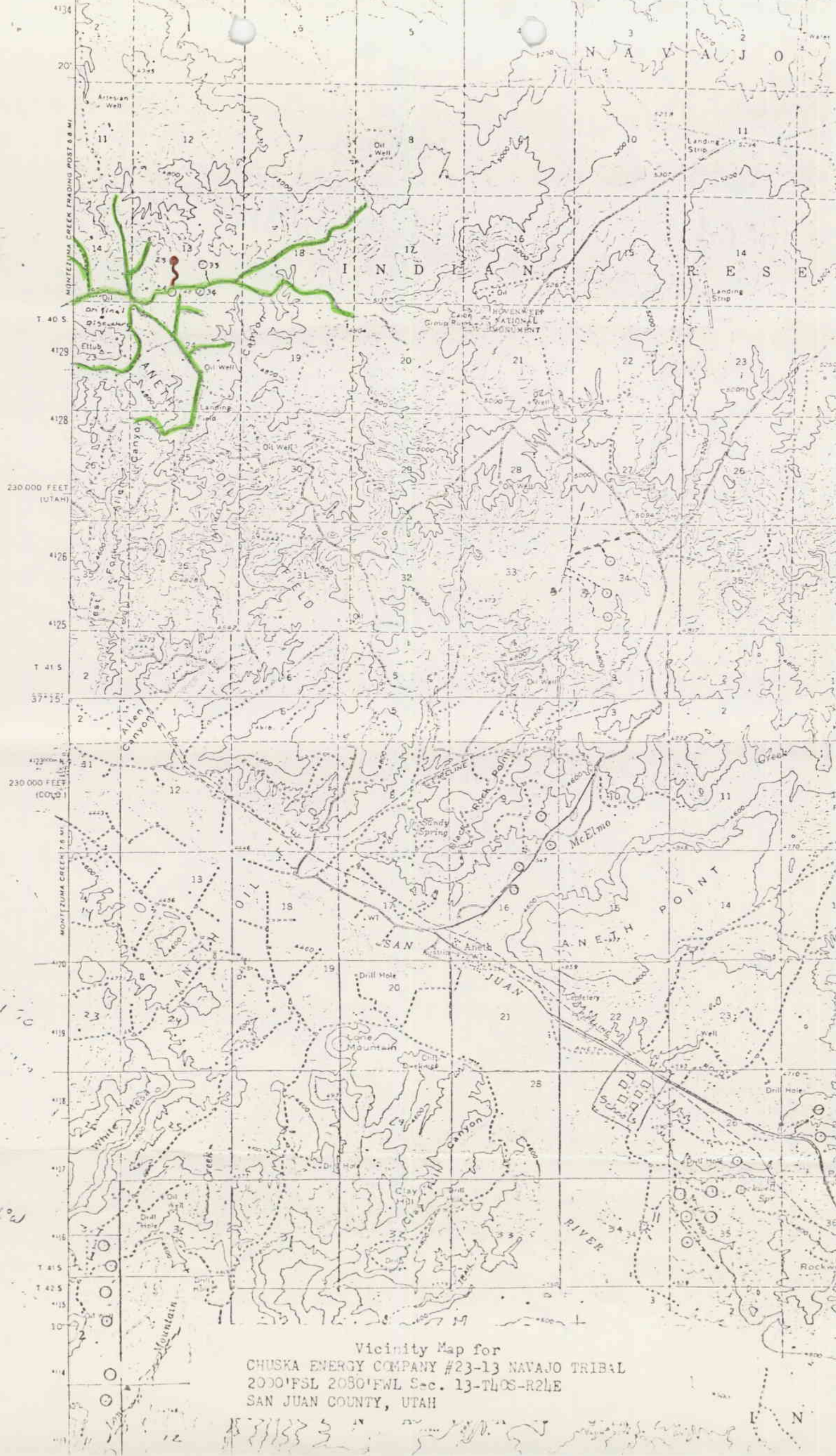
OFFSETTING WELLS

Profile for  
CHUSKA ENERGY COMPANY #23-13 NAVAJO TRIBAL  
2000'FSL 2080'FWL Sec. 13-T4OS-R24E  
SAN JUAN COUNTY, UTAH



NOTE: This location staked on an old abandoned location that was built but did not have pits dug





OPERATOR CHUSKA ENERGY CO DATE 12-14-83

WELL NAME NAVAJO TRIBAL 23-13

SEC NESW 13 T 40 S R 24 E COUNTY SAN JUAN

43-037-30971  
API NUMBER

INDIAN  
TYPE OF LEASE

POSTING CHECK OFF:

☐

INDEX

☐

MAP

☐

HL

☐

NID

☐☐

PI

PROCESSING COMMENTS:

N/O OIL WELLS WITHIN 1000'

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

CHIEF PETROLEUM ENGINEER REVIEW:

12/14/83

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 12/14/83  
BY: [Signature]

APPROVAL LETTER:

SPACING:

☐

A-3

UNIT

☐

c-3-a

CAUSE NO. & DATE

☒

c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

WATER

# 09-1327 as per Dorothy Kelson 1-5-84  
[Signature]



☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER \_\_\_\_\_

☐ UNIT \_\_\_\_\_

☒ c-3-b

☐ c-3-c

BY: \_\_\_\_\_  
DATE: \_\_\_\_\_  
CIT: \_\_\_\_\_  
OIL: \_\_\_\_\_

APPROVED BY THE STATE  
TO MINING DIVISION OF  
OIL AND GAS

DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

☒ CHECK DISTANCE TO NEAREST WELL.

☒ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☒ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

☒ VERIFY LEGAL AND SUFFICIENT DRILLING WATER

December 14, 1983

Chuska Energy Company  
c/o 3E Company  
Box 190  
Farmington, New Mexico 87401

RE: Well No. Navajo Tribal 23-13  
NESW Sec. 13, T. 40S, R. 24E  
2000' FSL, 2080' FWL  
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3(b), General Rules and Regulations and Rules of Practice and Procedure. Prior to spudding, a copy of the Utah Division of Water Rights (Phone No. 801-533-6071) approval for use or purchase of drilling water must be submitted to this office, otherwise this approval is void.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer  
Office: 533-5771  
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30971.

Sincerely,

Norman C. Stout  
Administrative Assistant

NCS/as  
cc: Branch of Fluid Minerals (2)  
Bureau of Indian Affairs  
Enclosure

Water Permit

# 091327

+ 59563

Approved  
by Dorothy  
(Water Right)

4/17/84

Norm



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for well proposals.)

1. oil ☒ gas ☐ other ☐  
well well well  
2. NAME OF OPERATOR  
Chuska Energy Co.  
3. ADDRESS OF OPERATOR N.M 87499  
C/O 3E Co. Inc., P.O Box 190, Farmington  
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17  
below.) 2000'/S & 2080'/W  
AT SURFACE:  
AT TOP PROD. INTERVAL: same  
AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,  
REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) change casing plans		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Operator request approval to make the following changes  
in the casing program:

13 3/8" 54.5# casing - eliminate

8 5/8" 24# casing - change setting depth to 500' and  
cement to 400 Cu.Ft. Calss "B" +  
2% CaCl<sub>2</sub>

5. LEASE  
Nog 8308-1033  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Navajo Tribal  
9. WELL NO. 23-13  
10. FIELD OR WILDCAT NAME  
Aneth  
11. SEC., T., R., M., OR BLK. AND SURVEY OR  
AREA 13-40S-24E  
12. COUNTY OR PARISH  
San Juan  
13. STATE  
Utah  
14. API NO.  
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4875' g.l

(NOTE: Report results of multiple completion or zone  
change on Form 9-330.)

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED John Alexander TITLE Agent DATE 3/12/84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: CHUSKA

WELL NAME: NAVAJO TRIBAL 23-13

SECTION NESW 13 TOWNSHIP 40S RANGE 24E COUNTY SAN JUAN

DRILLING CONTRACTOR YOUNG DRILLING

RIG # 3

SPUDDED: DATE 3-17-84

TIME 12:00 PM

HOW ROTARY

DRILLING WILL COMMENCE

REPORTED BY RALPH SLOANE

TELEPHONE # 326-1135

DATE 3-16-84 SIGNED CJ

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NOG-8308-1033	
2. NAME OF OPERATOR Chuska Energy Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR c/o 3E Company, Inc. Box 190, Farmington, NM 87499		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2000' FSL & 2080' FWL		8. FARM OR LEASE NAME Navajo Tribal	
14. PERMIT NO.		9. WELL NO. 23-13	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4875' G.R.		10. FIELD AND POOL, OR WILDCAT Aneth	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 13, 40S, 24E	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input checked="" type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Spud 12 1/4" hole at 1530 hours 3/17/84. Drilled to 506'. Ran 8 5/8" 24# per foot casing to 506'. Cemented with 314 cubic feet class "B" + 2% CaCl<sub>2</sub>. Circulated 126 cubic feet to surface. Maintained full circulation throughout job. Job complete 0755 hours 3/18/84.

RECEIVED

APR 4 1984

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

*John Alexander*  
John Alexander

TITLE

Agent

DATE

3/26/84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

RECEIVED

November 1983)  
Formerly 9-331)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTSUBMIT IN TRIPLICATE  
(Other instructions  
verse side)Form approved.  
Budget Bureau No. 1004-0133  
Expires August 31, 1985

APR 30 1984

## SUNDRY NOTICES AND REPORTS ON WELLS

This form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)DIVISION OF OIL  
GAS & MININGOIL WELL ☒ GAS WELL ☐ OTHER ☐

## 2. NAME OF OPERATOR

Chuska Energy Co.

## 3. ADDRESS OF OPERATOR

c/o 3E Company, Inc., Box 190, Farmington, NM 87499

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)  
At surface

2000' FSL &amp; 2080' FWL

## 14. PERMIT NO.

## 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4887' K.B.

## 5. LEASE DESIGNATION AND SERIAL NO.

NOG-8308-1033

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

## 7. UNIT AGREEMENT NAME

## 8. FARM OR LEASE NAME

Navajo Tribal

## 9. WELL NO.

23-13

## 10. FIELD AND POOL, OR WILDCAT

Aneth

## 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 13, T40S, R24E

## 12. COUNTY OR PARISH

San Juan

## 13. STATE

Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☒(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Ran gamma ray - collar log. Pressure test casing to 3000 psi. Ran packer on 2 7/8" tubing to 5495'. Perforate Desert Creek zone 5733-49' and 5725'-29' with 2 shots per foot. Well commenced to flow naturally. Tested well at 793 b.o.p.d. Job complete 4/7/84.

## 18. I hereby certify that the foregoing is true and correct

SIGNED

John Alexander

TITLE

President

DATE

4/20/84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED  
Form 3160-5  
November 1983)  
APR 30 1984

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

DIVISION OF OIL AND GAS  
SUNDRY NOTICES AND REPORTS ON WELLS  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Chuska Energy Co.

3. ADDRESS OF OPERATOR

c/o 3E Company, Inc., Box 190, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

4887 K.B.

5. LEASE DESIGNATION AND SERIAL NO.

NOG 8308-1033

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo Tribal

9. WELL NO.

23-13

10. FIELD AND POOL, OR WILDCAT

Aneth

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec 13, 40S, 24E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

Request for tight hole

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Operator request that information on this well be held confidential.

18. I hereby certify that the foregoing is true and correct

SIGNED

*John Alexander*  
John Alexander

TITLE

Agent

DATE

4/23/84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONFIDENTIAL  
RECEIVED

CONFIDENTIAL

CONFIDENTIAL

APR 30 1984

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN DUPLICATE\*  
(See other instructions on reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

NOG-8308-1033

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo Tribal

9. WELL NO.

23-13

10. FIELD AND POOL, OR WILDCAT

Greater  
Aneth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 13, 40S, 24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

19. ELEV. CASINGHEAD

4876

ROTARY TOOLS

CABLE TOOLS

0-5920

25. WAS DIRECTIONAL SURVEY MADE

yes

27. WAS WELL COBED

no

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

DIVISION OF OIL  
GAS & MINING

1. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Chuska Energy Co.

3. ADDRESS OF OPERATOR

c/o 3E Company, Inc., Box 190, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface

2000' FSL &amp; 2080' FWL

At top prod. interval reported below

same

At total depth

same

14. PERMIT NO.

43-037-30971

DATE ISSUED

12-14-83

15. DATE SPUDDED

3/17/84

16. DATE T.D. REACHED

3/31/84

17. DATE COMPL. (Ready to prod.)

4/7/84

18. ELEVATIONS (DF, REB, RT, GR, ETC.)\*

4887 K.B.

20. TOTAL DEPTH, MD &amp; TVD

5920

21. PLUG, BACK T.D., MD &amp; TVD

5872

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

5725-5749 Desert Creek

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL, CNL, DC, GR, C.C.L.

28.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24	506	12 1/4	314 cubic feet c/B, 2% CaCl <sub>2</sub>	none
5 1/2	15.5	5912	7 7/8	459 cu.ft. c/H, 10% salt	none
				10# calseal, 6/10% Halad-9	

29.

LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	5495	5495

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

5725-5729	0.31	2 shots/ft
5733-5749	0.31	2 shots/ft

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
none	

~~CONFIDENTIAL~~

33.\*

PRODUCTION

DATE FIRST PRODUCTION 4/6/84		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) producing	
DATE OF TEST 4/7/84	HOURS TESTED 24	CHOKE SIZE 29/64	PROD'N. FOR TEST PERIOD →	OIL—BBL. 793	GAS—MCF. 300	WATER—BBL. -0-	GAS-OIL RATIO 378
FLOW. TUBING PRESS. 200	CASING PRESSURE Packer	CALCULATED 24-HOUR RATE →	OIL—BBL. 793	GAS—MCF. 300	WATER—BBL. 0		OIL GRAVITY-API (CORR.) 41

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be Sold

TEST WITNESSED BY

J. Alexander

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

John Alexander

TITLE

Agent

DATE

4/20/84

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

## 38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Navajo	940	
Chinle	1666	
De Chelly	2806	
Organ Rock	2895	
Hermosa	4650	
Upper Ismay	5563	
Lower Ismay	5674	
Gothic Shale	5705	
Desert Creek	5768	
Chimney Rock	5822	

FILE IN TRIPLICATE  
FORM OGC-8-X

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

RECEIVED

APR 30 1984

DIVISION OF OIL  
GAS & MINING

\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number Navajo Tribal 23-13  
Operator Chuska Energy Co. Address c/o 3E Co. P.O Box 190  
Farmington, N.M 87499  
Contractor Young Drilling Co. Address P.O Box 717 Farmington, N.M  
87499  
Location NE 1/4 SW 1/4 Sec. 13 T. 40S R. 24E County San Juan

Water Sands

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	<u>no water encountered</u>		
2.			
3.			
4.			
5.			

(Continue of reverse side if necessary)

Formation Tops

Navajo 940	DeChelly 2806	Desert Creek 5768
Chinle 1666	Organ Rock 2895	
<u>Remarks</u>	Hermosa 4650	
	Upper Isamy 5563	
	Lower Ismay 5674	
	Gothis Shale 5705	

NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.

(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 1 of 3

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

LARRY G SESSIONS  
 CHUSKA ENERGY COMPANY  
 3315 BLOOMFIELD HWY  
 FARMINGTON NM 87401

UTAH ACCOUNT NUMBER: N9290REPORT PERIOD (MONTH/YEAR): 12 / 93AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
116-1 NAVAJO TRIBAL								
✓4303715390	00545	41S 25E 31	DSCR					
NAVAJO TRIBAL 23-13								
✓4303730971	09420	40S 24E 13	DSCR					
NAVAJO TRIBAL 42-2								
✓4303731017	09425	42S 24E 2	DSCR					
NAVAJO TRIBAL 24-13								
✓4303730970	09435	40S 24E 13	DSCR					
NAVAJO TRIBAL 41-2								
✓4303731041	09437	42S 24E 2	DSCR					
NAVAJO TRIBAL #32-26								
✓4303731060	09990	40S 22E 26	DSCR					
NAVAJO TRIBAL 14-10								
✓4303730977	10130	40S 24E 10	DSCR					
SAHGZIE NO. 1								
✓4303731472	11032	42S 24E 5	DSCR					
ANASAZI #1								
✓4303731478	11042	42S 24E 5	DSCR					
CAJON MESA 8-D-1								
✓4303731497	11074	40S 25E 8	DSCR					
MONUMENT #8-N-2								
✓4303731509	11087	40S 25E 8	DSCR					
TOWER #1 I-2								
✓4303731507	11088	40S 25E 1	ISMY					
RUNWAY 10G #1								
✓4303731515	11105	40S 25E 10	DSCR					
TOTALS								

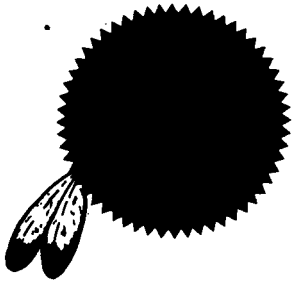
COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_



# HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

We are pleased to announce that effective January 18, 1994, Chuska Energy Company, has changed its name to Harken Southwest Corporation. This is in line with the February 1993 merger with Harken Exploration Company.

Harken Southwest Corporation is still located at 3315 Bloomfield Highway, Farmington, New Mexico, 87401. You may still contact us at (505) 326-5525.

Please reflect this name change as necessary on all future correspondence.

Thank you for your assistance in this matter and we look forward to working with you as Harken Southwest Corporation.

Sincerely,

Barry A. Wieland  
Operations Manager

RECEIVED

FEB 07 1994

DIVISION OF  
OIL, GAS & MINING

## PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File \_\_\_\_\_☐ Suspense  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_☒ Other  
*Oper. Nm. Change*(Location) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_  
(API No.) \_\_\_\_\_1. Date of Phone Call: 2-9-94 Time: 12:292. DOGM Employee (name) J. Cordova (Initiated Call ☒  
Talked to:Name Wayne Townsend (Initiated Call ☐ - Phone No. (505) 599-8900  
*(or Ken Townsend)*  
of (Company/Organization) Btm / Farmington N.M.3. Topic of Conversation: Chuska Energy Co. to Harken Southwest Corp.

4. Highlights of Conversation: \_\_\_\_\_

They have not rec'd doc. of name change. When they do receive doc. they  
will most likely keep "Chuska" as operator yet mail any correspondence  
% Harken, until BIA approval. (BIA approval may take a while!)

\* 940210 Per Admin. OK to change.

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1-REC	7-SJ	✓
2-DTS	8-FILE	✓
3-VLC		✓
4-RJE		✓
5-LEU		✓
6-PL		✓

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold) ☐ Designation of Agent  
☐ Designation of Operator ☒ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-18-94)

TO (new operator) <u>HARKEN SOUTHWEST CORPORATION</u>	FROM (former operator) <u>CHUSKA ENERGY COMPANY</u>
(address) <u>3315 BLOOMFIELD HWY</u>	(address) <u>3315 BLOOMFIELD HWY</u>
<u>FARMINGTON NM 87401</u>	<u>FARMINGTON NM 87401</u>
phone ( <u>505</u> ) <u>326-5525</u>	phone ( <u>505</u> ) <u>326-5525</u>
account no. <u>N 9290</u>	account no. <u>N9290</u>

Well(s) (attach additional page if needed):

Name: <u>**SEE ATTACHED**</u>	API: <u>037-30971</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Lee 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 2-7-94)
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- Lee 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) yes If yes, show company file number: #096704.
- Lee 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (2-10-94)
- Lee 6. Cardex file has been updated for each well listed above. (2-10-94)
- Lee 7. Well file labels have been updated for each well listed above. (2-10-94)
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

### ENTITY REVIEW

- Lee 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

- N/A Lee 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no)     . Today's date                      19    . If yes, division response was made by letter dated                      19    .

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                      19    , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

### FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: March 7 1994.

### FILING

- Lee 1. Copies of all attachments to this form have been filed in each well file.
- Lee 2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS



ELKHORN OPERATING COMPANY  
ANETH PLANT  
P.O. BOX 70  
MONTEZUMA CREEK, UTAH 84534  
**Memorandum**



**To:** See Distribution List  
**From:** Gene Gruette  
**Date:** August 18, 1995  
**Subject:** ANETH PLANT SHUTDOWN

---

Aneth Plant will be shut down on September 18, 1995 to make necessary repairs to the cooling tower, inspect and clean gas coolers, and repair other equipment which requires a plant shutdown.

We plan to have the plant started back up the afternoon of Friday, September 22, 1995.

Each operator will need to make whatever contacts with regulatory agencies and gas marketers, etc. they deem necessary.

Should you have questions, call the writer at (801)631-3254.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 07 1995

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.

OIL, GAS & MIN

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261-2007 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

See Attached List

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

NAVAJO

7. If Unit or CA, Agreement Designation

8. Well Name and No.

See Attached List

9. API Well No.

43-037-30971

See Attached List

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other Flaring during plant shut-down

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Pursuant to the attached notice from Elkhorn Operating, Harken Southwest request permission to vent/flare all non-lease use gas from September 18, 1995 thru September 22, 1995 or until the Aneth Plant resumes operation.

Attached is a list of wells which will be affected by the plant shut down. The list is compiled in API number order.

Should any questions arise, please contact Mr. Richard Cottle, Farmington, New Mexico @ (505) 327-5531 or the undersigned.

cc: Navajo Nation  
State of Utah

14. I hereby certify that the foregoing is true and correct

Signed

Title

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

## HARKEN SOUTHWEST CORPORATION

Request permission to flare/vent gas production on the following wells during the shut-down of the Aneth Plant Monday, September 18 thru Friday, September 22, 1995.

<u>Well Name</u>	<u>Sec-Twnshp-Rng</u>	<u>API Number</u>
Navajo Tribal 23-13	13-40S-24E	43-037-30971
Navajo Tribal 41-2	02-42S-24E	43-037-31041
Sahgzie #1	05-42S-24E	43-037-31472
Anasazi #1	05-42S-24E	43-037-31478
Cajon Mesa 8D-1	08-40S-25E	43-037-31497
Monument 8N-2	08-40S-25E	43-037-31509
Runway 10G-1	10-40S-25E	43-037-31515
Monument 17E	17-40S-25E	43-037-31547
Runway 10E-2	10-40S-25E	43-037-31550
Blue Hogan 1J-1	01-42S-23E	43-037-31562
Anasazi 5L-3	05-42S-24E	43-037-31572
Brown Hogan 1A-2	01-42S-23E	43-037-31573
Runway 10C-5A	10-40S-25E	43-037-31597
North Heron 35C	35-41S-25E	43-037-31616
Burro 31-I	31-41S-24E	43-037-31708
Jack 31G	31-41S-24E	43-037-31709
Mule 31M	31-41S-24E	43-037-31710
Big Sky 6E (6L)	06-42S-25E	43-037-31714
Hillside 6C-1	06-42S-25E	43-037-31721



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

NOG 8303-1033

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Navajo Tribal 23-13

9. API Well No.

43-037-30971

10. Field and Pool, or Exploratory Area

Aneth

11. County or Parish, State

San Juan County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007, Dallas, Texas 75261-2007 (972) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2000' FSL & 2080' FWL (NE/SW)  
Section 13-40S-24E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other

Add perforations

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Ismay/Desert Creek

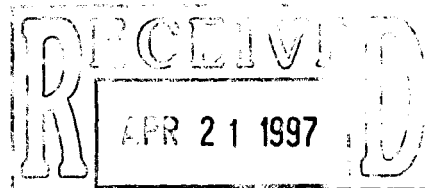
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Harken Southwest plans to perforate and test the Lower Desert Creek formation in the Navajo Tribal #23-13. In addition to testing the Lower Desert Creek, we may add perforations in the Middle Desert Creek, Upper Ismay and Lower Ismay, given a positive test of the Lower Desert Creek.

If the Lower Desert Creek proves to be wet, we would simply set a CIBP above the proposed perforations. If the zones are productive, we would add additional perforations in the Middle Desert Creek, Lower Ismay and Upper Ismay and subsequently acidize.

Attached please find the Proposed Recompletion Procedures which also includes a current well summary. Should additional information be required, please contact Richard Cottle in our Farmington Office at (505) 327-5531 or the undersigned at (972) 753-6900.

CC: State of Utah  
Navajo Nation  
BIA



I hereby certify that the foregoing is true and correct

Signed

Richard Cottle

Montgomery

Title Production Administrator

Date 04/18/97

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Accepted by the  
Utah Division of

Oil, Gas and Mining

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**NAVAJO TRIBAL #23-13  
2000' FSL & 2080' FWL  
Sec 13-T40S-R24E  
San Juan County, Utah**

***PROPOSED RECOMPLETION PROCEDURES***

Present Status: Pumping Oil Well  
(Pump 2-1/2 x 1-1/2 x 17 RHW - 76 rod string)

Production Rates: 19 BOPD; 6.9 MCF/D; 59 BWPD

Elevation: 4876' GL

Total Depth: 5916' KB                      PBTD: 5848' KB

Casing Detail: 8-5/8" 24# set @ 506' w/Class B cmt to surface  
5-1/2" 15.5# set @ 5916' w/300sx Class H - Calc TOC @ 4046' inside  
7-7/8" hole

Casing Collars: 5579', 5620', 5660', 5700', 5740'+, 5781', 5821'

**CONFIDENTIAL**

**Perforation Record**

Date	Formation	Shot Density	Depth Interval	Currently Open
04/07/94	Desert Creek	2 JSPF	5725-29'	Yes
04/07/94	Desert Creek	2 JSPF	5733-49'	Yes

**Reference Logs:**

Dresser Atlas Densilog/N/GR dated 3/30/84 (on depth with Dresser GR/CCL "PFC Chart" dated 4/5/84)

**Proposed Operation:** Test Lower Desert Creek and add perms to Ismay

1. MIRU, hold safety meeting with crew. Record tubing and casing pressure before blowing down.
2. Hot oil down casing with 45 - 50 bbls of lease crude @ 225° F with Paraffin inhibitor.
3. Unseat pump and POOH with pump and rod string. LD same (replace worn rods).
4. NDWHD and NUBOP's. Pull tbg and tag PBTD.

5. TIH with 4-3/4" bit and 5-1/2" casing scraper. RIH and clean out to PBTD. Circ clean. Catch all scale samples and have analyzed clean.
6. POOH & RU perforators. RIH w/CCL and 4" casing gun and perforate using 2 JSPF. Correlate collars to perforate 5846-5854' (KB) and 5824-5832' (KB) in 2 gun runs. RD perforators.
7. RIH w/tubing and packer w/SN on bottom joint to +/- 5800'. Set packer.
8. Swab test perforations at 5824-54' . If no fluid entry, break down w/lease water. Report results to Dallas office. If 100% water - will set CIBP @ +/- 5810' (KB).
- \*9. POOH w/tubing and RU perforators.
- \*10. RU lubricator. TIH w/CCL and 4" csg gun to perforate as follows:

Perf Depth (KB)	Formation
5794-04'	Desert Creek
5774-86'	Desert Creek
5754-62'	Desert Creek
5676-86'	Ismay
5592-94'	Ismay
5569-72'	Ismay

**CONFIDENTIAL**

Correlate on depth with ref log. Perforate w/ 4 JSPF. Note any pressure increase on lubricator. POOH w/gun and CCL.

- \*11. RIH w/SPA w/20' spacing. Test packer @ +/- 5000'. Drop RFC valve.

- \*12. Acidize with 15% HCL NEA at a rate of 1 to 1-1/2 BPM. Maximum applied pressure at surface of 3000 psig. Frac gradient of Ismay is 1.0 psi/ft. Keep pump rates below 2 BPM to insure no frac is initiated and to keep acid in zone. Acidize as follows:

Top Element Setting Depth	Volume of Acid (Gal)
5840'	500
5820'	500
5790'	300
5770'	500
5752'	200
5730'	300
5670'	250
5585'	200
5565'	200
Total	2950

CONFIDENTIAL

- PU above perfs @ +/- 5500 , set packer, pull RFC and standing valves.
- \*13. Flow well to clean-up into temporary tanks. If well does not flow RU to swab. Swab for clean-up and note oil, gas and water rates.
14. POOH w/tubing and packer and run production equipment back in well.
15. Report test to office for 1 week.
- \* Steps are optional pending results of Step #8.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

43-037-36971

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No.
2. Name of Operator Harken Southwest Corporation	6. If Indian, Allottee or Tribe Name Navajo Nation
3. Address and Telephone No. P.O. Box 612007 Dallas, Texas 75261-2007 (972) 753-6900	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 40,41 & 42S - 23,24 & 25S Various Sections	8. Well Name and No. See attached
	9. API Well No. See attached
	10. Field and Pool, or Exploratory Area
	11. County or Parish, State San Juan County, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Gas venting
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

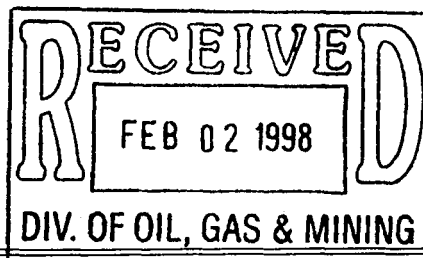
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached please find the summary sheet for the gas vented by Harken Southwest during December, 1997 and January, 1998 due to the explosion and subsequent problems at the Aneth Gas Plant.

If additional information is required, please contact the undersigned at (972) 753-6900.

CC: State of Utah  
Navajo Nation - Minerals Dept  
BIA - Gallup, NM



14. I hereby certify that the foregoing is true and correct

Signed *Sachelle Montgomery* Title Production Administrator Date 01/29/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

**IARKEN SOUTHWEST CORPORATION**
**Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)**

Page 1 of 3

	Anasazi #1 43-037-31478 SW/NW Sec 5-42S-24E	Anasazi 5L-3 43-037-31572 NW/SW Sec 5-42S-24E	Sahgzie 1 43-037-31472 SW/NW Sec 5-42S-24E	Anasazi 8H-1 43-037-31744 SE/NE Sec 6-42S-24E	Navajo Tribal 41-2 43-037-31041 NE/NE Sec 2-42S-24E	Navajo Tribal 23-13 43-037-30971 NE/SW Sec 13-40S-24E	Runway 10C-5A 43-037-31597 NE/NW Sec 10-40S-25E	Runway 10G-1 43-037-31515 SW/NE Sec 10-40S-25E
<b>Vented Gas (MCF) December 1997</b>								
25-Dec	88	58	29	14		12	84	158
26-Dec	88	58	28	15		12	84	157
27-Dec	82	61	24	15		12	84	157
28-Dec	85	61	30	14		12	84	157
29-Dec	90	58	25	16	8	12	84	157
30-Dec	88	57	30	16		12	84	162
31-Dec	79	52	26	16		12	84	157
<b>Dec Total</b>	<b>600</b>	<b>405</b>	<b>192</b>	<b>106</b>	<b>8</b>	<b>84</b>	<b>588</b>	<b>1105</b>
<b>Vented Gas (MCF) January 1998</b>								
1-Jan	79	57	29	16	7	12	84	162
2-Jan	89	57	30	15		12	84	162
3-Jan	87	52	30	16		12	84	162
4-Jan	86	50	29	16		12	84	162
5-Jan	107	47	29	16	7	12	84	162
6-Jan	76	75	28	21		10	84	162
7-Jan	84	72	29	22		11	84	157
8-Jan	79	75	30	22		9	84	157
9-Jan	77	70	29	21	11	12	84	147
10-Jan	0	0	0	0	0	2	0	136
11-Jan	0	0	0	0	0	0	0	0
12-Jan	0	0	0	0	0	0	0	0
13-Jan	0	0	0	0	0	0	0	0
14-Jan	0	0	0	0	0	0	0	0
15-Jan	0	0	0	0	0	0	0	0
16-Jan	0	0	0	0	0	0	0	0
17-Jan	0	0	0	0	0	0	0	0
18-Jan	81	67	28	22	0	0	0	0
19-Jan	81	67	28	22	0	5	99	0
20-Jan	80	64	30	21	0	2	12	0
<b>Jan Total</b>	<b>1006</b>	<b>753</b>	<b>349</b>	<b>230</b>	<b>25</b>	<b>111</b>	<b>867</b>	<b>1569</b>
<b>Grand Total</b>	<b>1606</b>	<b>1158</b>	<b>541</b>	<b>336</b>	<b>33</b>	<b>195</b>	<b>1455</b>	<b>2674</b>

**HARKEN SOUTHWEST CORPORATION**
**Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)**

Page 2 of 3

	Runway 10E-2 43-037-31550 SW/NW Sec 10-40S-25E	Momentum 8N-2 43-037-31509 SE/SW Sec 8-40S-25E	Momentum 17E-2 43-037-31547 SW/NW Sec 17-40S-25E	Cajon Mesa 8D-1 43-037-31497 NW/NW Sec 8-40S-25E	Blue Hogan 1J-1 43-037-31562 NW/SE Sec 1-42S-23E	Brown Hogan 1A-2 43-037-31573 NE/NE Sec 1-42S-23E
<b>Vented Gas (MCF) December 1997</b>						
25-Dec	64	22		22	32	20
26-Dec	64	22	23	22	32	20
27-Dec	64	22		22	32	20
28-Dec	64	22		22	32	22
29-Dec	64	22	22	22	32	22
30-Dec	64	22		25	22	20
31-Dec	64	19		25	22	20
<b>Dec Total</b>	<b>448</b>	<b>151</b>	<b>45</b>	<b>160</b>	<b>204</b>	<b>144</b>
<b>Vented Gas (MCF) January 1998</b>						
1-Jan	64	20	22	25	22	21
2-Jan	64	22		25	20	20
3-Jan	64	22		25	20	20
4-Jan	64	22		25	22	20
5-Jan	64	21	15	25	22	20
6-Jan	64	21		25	22	20
7-Jan	64	21		25	22	22
8-Jan	64	21		25	22	22
9-Jan	64	22	22	25	22	22
10-Jan	8	0	0	22	40	4
11-Jan	0	0	0	0	0	0
12-Jan	0	0	0	0	0	0
13-Jan	0	0	0	0	0	0
14-Jan	0	0	0	0	0	0
15-Jan	0	0	0	0	0	0
16-Jan	0	0	0	0	0	0
17-Jan	0	0	0	0	0	0
18-Jan	0	0	0	0	44	21
19-Jan	69	23	14	21	44	21
20-Jan	13	4		5	10	23
<b>Jan Total</b>	<b>666</b>	<b>219</b>	<b>73</b>	<b>273</b>	<b>332</b>	<b>256</b>
<b>Grand Total</b>	<b>1114</b>	<b>370</b>	<b>118</b>	<b>433</b>	<b>536</b>	<b>400</b>

**HARKEN SOUTHWEST CORPORATION****Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)**

Page 3 of 3

	Mule 31M 43-037-31710 SW/SW Sec 31-41-24E	Big Sky 8E(6L) 43-037-31714 NW/SW Sec 8-42S-25E	Mule 31-K(N) 43-037-31817 NE/SW Sec 31-41S-24E	DAILY TOTALS
<b>Vented Gas (MCF) December 1997</b>				
25-Dec	25	62	25	715
26-Dec	25	94		744
27-Dec	20	94	21	730
28-Dec	19	90	21	735
29-Dec	28	62	29	753
30-Dec	22	62		686
31-Dec	23	62		661
<b>Dec Total</b>	<b>162</b>	<b>526</b>	<b>96</b>	<b>5024</b>
<b>Vented Gas (MCF) January 1998</b>				
1-Jan	22	62		704
2-Jan	23	63		686
3-Jan	23	63		680
4-Jan	23	63		678
5-Jan	23	63		717
6-Jan	22	63		693
7-Jan	23	63	21	720
8-Jan	23	63	21	717
9-Jan	23	64	21	736
10-Jan	0	64	0	276
11-Jan	0	0	0	0
12-Jan	0	0	0	0
13-Jan	0	0	0	0
14-Jan	0	0	0	0
15-Jan	0	0	0	0
16-Jan	0	0	0	0
17-Jan	0	0	0	0
18-Jan	23	73	0	359
19-Jan	25	73	21	613
20-Jan	23	2	23	312
<b>Jan Total</b>	<b>276</b>	<b>779</b>	<b>107</b>	<b>7891</b>
<b>Grand Total</b>	<b>438</b>	<b>1305</b>	<b>203</b>	<b>12915</b>



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <u>SEE ATTACHED</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>SEE ATTACHED</b>
2. NAME OF OPERATOR: <b>RIM Southwest Corporation</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Navajo</b>
3. ADDRESS OF OPERATOR: <b>P.O. Box 145</b> CITY <b>Farmington</b> STATE <b>NM</b> ZIP <b>87499</b>		7. UNIT or CA AGREEMENT NAME: <b>SEE ATTACHED</b>
PHONE NUMBER: <b>(505) 327-5531</b>		8. WELL NAME and NUMBER: <b>SEE ATTACHED</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>SEE ATTACHED</b>		9. API NUMBER: <b>SEE ATTACH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SEE ATTACHED</b>		10. FIELD AND POOL, OR WILDCAT: <b>Greater Aneth</b>
		COUNTY: <b>San Juan</b>
		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>Corporate Name Change</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Corporate Name Change from Harken Southwest Corporation to RIM Southwest Corporation, effective December 1, 2000 for reporting requirements.

RECEIVED

APR 23 2001

DIVISION OF  
OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>W. J. Holcomb</u>	TITLE <u>Vice-President</u>
SIGNATURE <u>[Signature]</u>	DATE <u>4/23/2001</u>

(This space for State use only)

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

**HARKEN** Susan Herrera  
 RIM SOUTHWEST CORPORATION  
 C/O HOLCOMB OIL AND GAS, INC.  
 PO BOX 2058  
 FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER: N9290  
 REPORT PERIOD (MONTH/YEAR): 02/2001  
 AMENDED REPORT ☐ (Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
NAVAJO TRIBAL 23-13									
4303730971	09420	40S 24E 13	DSCR	P	OW	28	1,071	551	2,296
NAVAJO TRIBAL 41-2									
4303731041	09437	42S 24E 02	DSCR	P	OW	19	174	23	0
NAVAJO TRIBAL 32-26									
4303731060	09990	40S 22E 26	DSCR	P	OW	8	104	291	0
NAVAJO TRIBAL 14-10									
4303730977	10130	40S 24E 05	DSCR	P	OW	28	93	0	0
SAHGZIE 1									
4303731472	11032	42S 24E 05	DSCR	P	OW	28	1,025	476	0
ANASAZI 1									
4303731478	11042	42S 24E 05	DSCR	P	OW	28	1,308	1,349	0
CAJON MESA 8D-1									
4303731497	11074	40S 25E 08	DSCR	P	OW	27	245	355	61
MONUMENT 8N-2									
4303731509	11087	40S 25E 08	DSCR	P	OW	28	239	496	0
RUNWAY 10G-1									
4303731515	11105	40S 25E 10	DSCR	S	OW	28	1,412	1,613	432
RUNWAY 10E-2									
4303731550	11128	40S 25E 10	DSCR	S	GW	27	279	917	0
MONUMENT 17E-2									
4303731547	11139	40S 25E 17	DSCR	S	OW	26	157	548	0
LONE MOUNTAIN CREEK 12F-1									
4303731545	11148	42S 24E 12	DSCR	P	OW	22	149	533	12
RUNWAY 10C-5A									
4303731597	11152	40S 25E 10	DSCR	P	OW	24	221	899	40
TOTALS							6477	8051	2841

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: April 13, 2001

Signature

Susan M. Herrera  
 Susan M. Herrera

**RECEIVED**

Telephone Number

(505) 326-0550

APR 17 2001

DIVISION OF  
 OIL, GAS AND MINING

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

## MONTHLY OIL AND GAS PRODUCTION REPORT

**OPERATOR NAME AND ADDRESS**

Susan Herrera  
 RIM SOUTHWEST CORPORATION  
 C/O HOLCOMB OIL AND GAS, INC.  
 PO BOX 2058  
 FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER:

N9290

REPORT PERIOD (MONTH/YEAR):

02/2001

AMENDED REPORT ☐

(Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
✓ 4303731562	11161	42S 23E 01	DSCR	P	OW	27	800	778	36
✓ 4303731572	11207	42S 24E 05	DSCR	P	OW	28	1,187	1,284	0
✓ 4303731573	11215	42S 23E 01	DSCR	P	OW	28	297	504	0
✓ 4303731595	11224	41S 23E 36	DSCR	S	OW	0	0	0	0
✓ 4303731617	11326	41S 24E 31	DSCR	P	OW	28	308	348	73
✓ 4303731616	11479	41S 25E 35	DSCR	S	OW	0	0	0	0
✓ 4303731708	11496	41S 24E 31	DSCR	P	OW	28	489	0	0
✓ 4303731709	11497	41S 24E 31	DSCR	S	OW	0	0	0	0
✓ 4303731710	11498	41S 24E 31	DSCR	P	OW	28	1,074	333	120
✓ 4303731714	11722	42S 25E 06	DSCR	P	OW	26	262	551	0
✓ 4303731741	11734	41S 25E 32	DSCR	TA	NA	0	0	0	0
✓ 4303731744	11773	42S 24E 06	DSCR	P	OW	28	205	303	0

TOTALS

4622

4101

229

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: April 13, 2001

Signature

*Susan M. Herrera*  
 Susan M. Herrera

RECEIVED

Telephone Number

(505) 326-0550

APR 17 2001

DIVISION OF  
 OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**RIM SOUTHWEST CORPORATION**

3. Address and Telephone No.

**P. O. Box 145, Farmington, NM 87499 (505)327-5531**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Designation and Serial No.

**See Attached**

6. If Indian, Allottee or Tribe Name

**Navajo Nation**

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**San Juan County  
Utah**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Vent/Flare Gas  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Please be advised that RIM Southwest Corporation is requesting approval to vent gas until September 14, 2001. After September 14, we request permission to flare the gas until the Aneth Plant is back on line.

**Attachment**

cc: State of Utah  
Navajo Nation-Minerals  
Navajo Nation EPA - Air Quality  
BIA - Gallup, NM

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date: 9/17/01  
By: [Signature]

Exp. Oct 15, 2001

Federal Approval Of This  
Action Is Necessary

COPY SENT TO OPERATOR  
Date: 9-17-01  
Initials: [Signature]

RECEIVED  
DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed [Signature]

Title W. J. Holcomb, Vice President Date 8/29/01

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_ Date \_\_\_\_\_

RIM SOUTHWEST CORPORATION

LEASE NUMBER	WELL NAME	SEC-TWN-RNG	ESTIMATED GAS
			VENTED MCF/DAY
1420603373	Big Sky 6E (6L)	06-42S-25E	19
NOC 14205297			
(NMNM 5756)	Monument 8N-2	08-40S-25E	18
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23
	Navajo Tribal 14-10	10-40S-24E	1
	Navajo Tribal 41-2	02-42S-24E	8
	Navajo Tribal 32-26	26-40S-22E	8
NOG 8707-1162	Sahgzie #1	05-42S-24E	16
	Anasazi #1	05-42S-24E	67
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI
	Runway 10C-5A	10-40S-25E	SI
NOG 8707-1190	Runway 10E-2	10-40S-25E	17
NOG 8707-1191	Monument 17E-2	17-40S-25e	0
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27
	Brown Hogan 1A-2	01-42S-23E	18
NOG 8707-12321	Burro 31-1	31-41S-24E	1
	Jack 31G	31-41S-24E	SI
	Mule 31K (N)	31-41S-24E	7
	Mule 31M	31-41S-24E	24
TOTAL AVERAGE			254

- 43-037-31714

- 43-037-31509

- 43-037-31497

- 43-037-30971

- 43-037-30977

- 43-037-31041

- 43-037-31060

- 43-037-31472

- 43-037-31478

- 43-037-31515

- 43-037-31597

- 43-037-31550

- 43-037-31547

- 43-037-31562

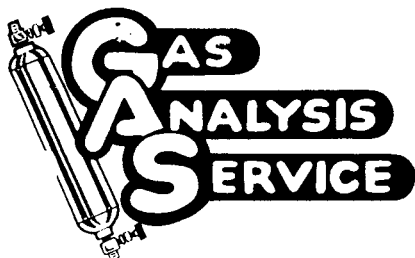
- 43-037-31573

- 43-037-31708

- 43-037-31709

- 43-037-31617

- 43-037-31710



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC80013  
CUST. NO. 33500- 10095

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MULE 31M	PRESSURE	25 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	76 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E412018	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.332	0.0000	0.00	0.0129
CO2	0.112	0.0000	0.00	0.0017
METHANE	57.114	0.0000	578.17	0.3164
ETHANE	19.739	5.2802	350.11	0.2049
PROPANE	11.863	3.2694	299.17	0.1806
I-BUTANE	1.498	0.4900	48.83	0.0301
N-BUTANE	4.080	1.2864	133.41	0.0819
I-PENTANE	1.011	0.3699	40.54	0.0252
N-PENTANE	1.215	0.4401	48.82	0.0303
HEXANE PLUS	2.036	0.8883	104.67	0.0655
TOTAL	100.000	12.0243	1,603.72	0.9494

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0067
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,614.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,586.4
REAL SPECIFIC GRAVITY		0.9559

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,605.7
DRY BTU @ 14.696	1,610.7
DRY BTU @ 14.730	1,614.5
DRY BTU @ 15.025	1,646.8

CYLINDER #	SJ99
CYLINDER PRESSURE	10 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	DAVE MARTIN



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC80012  
CUST. NO. 33500- 10015

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MULE 31K	PRESSURE	24 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	84 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION	DESERT CREEK	SAMPLED BY	FGM
CUST.STN.NO.	202E340052	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.925	0.0000	0.00	0.0186
CO2	0.133	0.0000	0.00	0.0020
METHANE	63.617	0.0000	643.99	0.3524
ETHANE	16.771	4.4862	297.47	0.1741
PROPANE	9.543	2.6301	240.66	0.1453
I-BUTANE	1.205	0.3942	39.28	0.0242
N-BUTANE	3.315	1.0452	108.39	0.0665
I-PENTANE	0.794	0.2905	31.84	0.0198
N-PENTANE	0.944	0.3419	37.93	0.0235
HEXANE PLUS	1.753	0.7648	90.12	0.0564
TOTAL	100.000	9.9529	1,489.68	0.8829

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

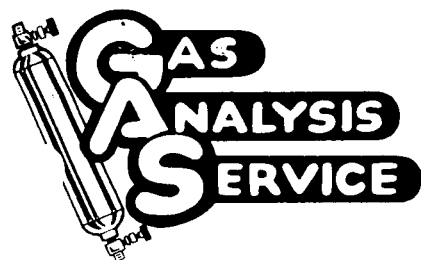
\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0056
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,498.0
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,472.0
REAL SPECIFIC GRAVITY		0.8877

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,489.9
DRY BTU @ 14.696	1,494.6
DRY BTU @ 14.730	1,498.0
DRY BTU @ 15.025	1,528.0

CYLINDER #	048A
CYLINDER PRESSURE	24 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	CHELLE DURBIN



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC80009  
CUST. NO. 33500- 10080

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	JACK 31G	PRESSURE	28 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	76 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E410005	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.975	0.0000	0.00	0.0191
CO2	0.062	0.0000	0.00	0.0009
METHANE	70.488	0.0000	713.55	0.3904
ETHANE	13.388	3.5813	237.46	0.1390
PROPANE	7.057	1.9449	177.97	0.1075
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.613	0.8239	85.44	0.0524
I-PENTANE	0.750	0.2744	30.08	0.0187
N-PENTANE	0.920	0.3332	36.97	0.0229
HEXANE PLUS	1.735	0.7570	89.20	0.0558
TOTAL	100.000	8.0458	1,403.66	0.8271

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0049
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,410.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,386.0
REAL SPECIFIC GRAVITY		0.8311

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,402.9
DRY BTU @ 14.696	1,407.3
DRY BTU @ 14.730	1,410.5
DRY BTU @ 15.025	1,438.8

CYLINDER #	004
CYLINDER PRESSURE	12 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	DAVE MARTIN





2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00018  
CUST. NO. 33500- 10035

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	BIG SKY 6E	PRESSURE	17 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	21 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/23/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E430640	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.658	0.0000	0.00	0.0160
CO2	0.037	0.0000	0.00	0.0006
METHANE	66.226	0.0000	670.41	0.3668
ETHANE	17.222	4.6069	305.47	0.1788
PROPANE	9.526	2.6254	240.24	0.1450
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.724	0.8589	89.07	0.0547
I-PENTANE	0.496	0.1815	19.89	0.0124
N-PENTANE	0.553	0.2003	22.22	0.0138
HEXANE PLUS	0.546	0.2382	28.07	0.0176
TOTAL	100.000	9.0422	1,408.36	0.8260

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0048
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,415.4
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,390.8
REAL SPECIFIC GRAVITY		0.8302

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,407.7
DRY BTU @ 14.696	1,412.2
DRY BTU @ 14.730	1,415.4
DRY BTU @ 15.025	1,443.8

CYLINDER #	007
CYLINDER PRESSURE	17 PSIG
DATE RUN	12/28/00
ANALYSIS RUN BY	GINA HANON

CQM, INC. ON-SITE GAS ANALYSIS UNIT 2  
 1427 W. AZTEC BLVD. #3  
 AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:48:14  
 Station #: 78-153 Sample Date: 06/13/2001  
 Station Name: BLUE/BROWN HOGAN Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S 1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_15306.2

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	3.577	0.000	0.035	
Methane	55.640	563.264	0.308	
CO2	0.033	0.000	0.001	
Ethane	17.739	314.636	0.184	4.744
H2S (APPROX)	0.000	0.000	0.000	
Propane	11.983	302.202	0.182	3.302
i-Butane	1.627	53.031	0.033	0.532
n-Butane	4.370	142.892	0.088	1.378
i-Pentane	1.194	47.881	0.030	0.437
n-Pentane	1.465	58.866	0.036	0.531
Hexanes	1.955	93.193	0.058	0.804
Heptanes	0.373	20.572	0.013	0.172
Octanes	0.044	2.756	0.002	0.023
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1599.293 0.969 11.922  
 Unnormalized Total 111.244

Gross BTU/Real Cu. Ft.	Gasoline Content
(@ 60 deg F, 14.730)	Propane GPM = 3.302
Dry = 1610.156	Butane GPM = 1.910
Sat. = 1583.743	Gasoline GPM = 1.966
Actual = 1610.156	26# Gasoline GPM = 3.344
( 0.000 lbs. water/MMCF)	Total GPM = 11.922

Real Relative Density Calculated = 0.9755  
 On-Site Relative Density = 0.0000

Gas Compressibility = 0.9933



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00010  
CUST. NO. 33500- 10090

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MONUMENT 17-E-2	PRESSURE	20 PSIG
COUNTY/STATE	SAN JUAN UT	SAMPLE TEMP	47 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311659	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.958	0.0000	0.00	0.0093
CO2	0.071	0.0000	0.00	0.0011
METHANE	67.968	0.0000	688.04	0.3765
ETHANE	14.933	3.9946	264.87	0.1550
PROPANE	8.159	2.2486	205.76	0.1242
I-BUTANE	0.965	0.3157	31.45	0.0194
N-BUTANE	2.976	0.9383	97.31	0.0597
I-PENTANE	0.754	0.2759	30.24	0.0188
N-PENTANE	1.118	0.4049	44.92	0.0279
HEXANE PLUS	2.098	0.9154	107.86	0.0675
TOTAL	100.000	9.0934	1,470.45	0.8593

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

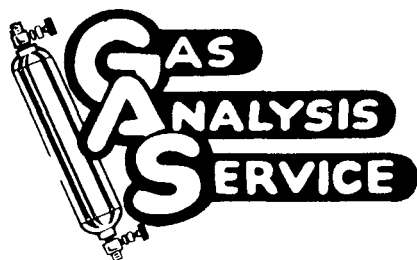
\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0054
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,479.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,453.8
REAL SPECIFIC GRAVITY		0.8647

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,471.5
DRY BTU @ 14.696	1,476.1
DRY BTU @ 14.730	1,479.5
DRY BTU @ 15.025	1,509.2

CYLINDER #	005
CYLINDER PRESSURE	22 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00014  
CUST. NO. 33500- 10120

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	RUNAWAY 10E2	PRESSURE	21 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	60 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311617	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.534	0.0000	0.00	0.0052
CO2	0.053	0.0000	0.00	0.0008
METHANE	50.326	0.0000	509.45	0.2788
ETHANE	23.092	6.1771	409.58	0.2397
PROPANE	14.269	3.9325	359.85	0.2173
I-BUTANE	1.588	0.5194	51.76	0.0319
N-BUTANE	4.428	1.3961	144.79	0.0889
I-PENTANE	0.988	0.3615	39.62	0.0246
N-PENTANE	1.348	0.4882	54.17	0.0336
HEXANE PLUS	3.374	1.4721	173.46	0.1086
TOTAL	100.000	14.3471	1,742.68	1.0292

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0082
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,758.8
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,728.2
REAL SPECIFIC GRAVITY		1.0390

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,749.3
DRY BTU @ 14.696	1,754.8
DRY BTU @ 14.730	1,758.8
DRY BTU @ 15.025	1,794.1

CYLINDER #	AZT035
CYLINDER PRESSURE	26 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00013  
CUST. NO. 33500- 10115

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	RUNAWAY 10C 5-A	PRESSURE	9 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	69 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E308719	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.794	0.0000	0.00	0.0077
CO2	0.109	0.0000	0.00	0.0017
METHANE	56.637	0.0000	573.34	0.3137
ETHANE	18.737	5.0121	332.34	0.1945
PROPANE	11.185	3.0826	282.07	0.1703
I-BUTANE	1.296	0.4239	42.24	0.0260
N-BUTANE	3.814	1.2026	124.71	0.0765
I-PENTANE	1.035	0.3787	41.51	0.0258
N-PENTANE	1.558	0.5643	62.60	0.0388
HEXANE PLUS	4.835	2.1095	248.57	0.1556
TOTAL	100.000	12.7737	1,707.38	1.0106

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0080
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,723.7
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,693.7
REAL SPECIFIC GRAVITY		1.0203

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,714.3
DRY BTU @ 14.696	1,719.7
DRY BTU @ 14.730	1,723.7
DRY BTU @ 15.025	1,758.2

CYLINDER #	A002
CYLINDER PRESSURE	14 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE

COM, INC.  
1427 W.AZTEC, BLVD. #3 AZTEC, NM 87410  
505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 12:58:11  
Station #: 78-138 Sample Date: 06/13/2001  
Station Name: RUNWAY 10-G-1 Flowing Pressure: 0 psig  
Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\sour2.met  
File: c:\mti\ezchrom\200\chrom\78\_13806.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.082	0.000	0.010	
Methane	59.728	604.648	0.331	
CO2	0.074	0.000	0.001	
Ethane	18.511	328.328	0.192	4.951
H2S (approx)	0.000	0.000	0.000	
Propane	12.402	312.769	0.189	3.417
i-Butane	1.191	38.820	0.024	0.390
n-Butane	3.539	115.720	0.071	1.116
i-Pentane	0.926	37.134	0.023	0.335
n-Pentane	1.239	49.785	0.031	0.453
Hexanes	0.834	39.756	0.025	0.343
Heptanes	0.424	23.385	0.015	0.196
Octanes	0.050	3.132	0.002	0.026

Ideal Total 100.000 1553.477 0.914 11.227  
Unnormalized Total 92.627

Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730)	Gasoline Content
Dry = 1563.024	Propane GPM = 3.417
Sat. = 1537.392	Butane GPM = 1.505
Actual = 1563.024	Gasoline GPM = 1.353
( 0.000 lbs. water/MMCF)	26# Gasoline GPM = 2.469
	Total GPM = 11.227

Real Relative Density Calculated = 0.9190  
On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939

## CQM, I ON-SITE GAS ANALYSIS

T 2

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:53:04  
 Station #: 78-148 Sample Date: 06/13/2001  
 Station Name: SAGEEZIE/ANASAZI Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_14806.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.664	0.000	0.006	
Methane	44.440	449.882	0.246	
CO2	0.068	0.000	0.001	
Ethane	23.771	421.625	0.247	6.358
H2S (APPROX)	0.000	0.000	0.000	
Propane	17.469	440.554	0.266	4.814
i-Butane	2.367	77.151	0.048	0.774
n-Butane	5.635	184.256	0.113	1.777
i-Pentane	1.485	59.551	0.037	0.543
n-Pentane	1.729	69.474	0.043	0.626
Hexanes	1.947	92.812	0.058	0.801
Heptanes	0.378	20.848	0.013	0.174
Octanes	0.047	2.944	0.002	0.024
Nonanes	0.000	0.000	0.000	

Ideal Total	100.000	1819.096	1.080	15.891
Unnormalized Total	113.650			

Gross BTU/Real Cu. Ft.  
 (@ 60 deg F, 14.730)

Dry = 1835.446

Sat. = 1805.263

Actual = 1835.446

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 4.814

Butane GPM = 2.551

Gasoline GPM = 2.169

26# Gasoline GPM = 3.945

Total GPM = 15.891

Real Relative Density Calculated = 1.0892

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9911



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00012  
CUST. NO. 33500- 10105

### WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.  
WELL NAME NAVAJO TRIBAL 32-26  
COUNTY/STATE SAN JUAN UT  
LOCATION ANETH  
FIELD  
FORMATION  
CUST.STN.NO. 202A-52531

SOURCE N/A  
PRESSURE 17 PSIG  
SAMPLE TEMP 30 DEG.F  
WELL FLOWING Y  
DATE SAMPLED 12/21/00  
SAMPLED BY FGM  
FOREMAN/ENGR. STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.934	0.0000	0.00	0.0090
CO2	0.050	0.0000	0.00	0.0008
METHANE	71.878	0.0000	727.62	0.3981
ETHANE	15.057	4.0277	267.07	0.1563
PROPANE	6.531	1.7999	164.71	0.0994
I-BUTANE	0.770	0.2519	25.10	0.0155
N-BUTANE	1.958	0.6174	64.02	0.0393
I-PENTANE	0.510	0.1866	20.45	0.0127
N-PENTANE	0.663	0.2401	26.64	0.0165
HEXANE PLUS	1.649	0.7195	84.78	0.0531
TOTAL	100.000	7.8431	1,380.39	0.8007

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0046  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,387.6  
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,363.5  
REAL SPECIFIC GRAVITY 0.8049

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,380.1  
DRY BTU @ 14.696 1,384.4  
DRY BTU @ 14.730 1,387.6  
DRY BTU @ 15.025 1,415.4

CYLINDER # KFL148  
CYLINDER PRESSURE 23 PSIG  
DATE RUN 12/22/00  
ANALYSIS RUN BY AMY JUSTICE



## CQM, INC. ON-SITE GAS ANALYSIS

WIT 2

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:59:32  
 Station #: 78-145 Sample Date: 06/13/2001  
 Station Name: NT41-2 Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET

File: c:\mti\ezchrom\200\chrom\78\_14506.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.152	0.000	0.011	
Methane	56.788	574.886	0.315	
CO2	0.085	0.000	0.001	
Ethane	19.719	349.755	0.205	5.274
H2S (APPROX)	0.000	0.000	0.000	
Propane	12.656	319.174	0.193	3.487
i-Butane	1.519	49.511	0.030	0.497
n-Butane	4.167	136.255	0.084	1.314
i-Pentane	1.029	41.265	0.026	0.377
n-Pentane	1.297	52.116	0.032	0.470
Hexanes	1.366	65.116	0.041	0.562
Heptanes	0.196	10.810	0.007	0.090
Octanes	0.026	1.628	0.001	0.013
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1600.514 0.945 12.084  
 Unnormalized Total 110.907

Gross BTU/Real Cu. Ft.

(@ 60 deg F, 14.730)

Dry = 1611.115

Sat. = 1584.681

Actual = 1611.115

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.487

Butane GPM = 1.811

Gasoline GPM = 1.512

26# Gasoline GPM = 2.826

Total GPM = 12.084

Real Relative Density Calculated = 0.9508

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9934

CQM, II ON-SITE GAS ANALYSIS

L P 2

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 14:32:41  
 Station #: 78-146 Sample Date: 06/14/2001  
 Station Name: NT #23-13 Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S 1.MET

File: c:\mti\ezchrom\200\chrom\78\_14606.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.159	0.000	0.011	
Methane	56.655	573.539	0.314	
CO2	0.136	0.000	0.002	
Ethane	19.548	346.722	0.203	5.228
H2S (APPROX)	0.000	0.000	0.000	
Propane	12.674	319.628	0.193	3.492
i-Butane	1.537	50.097	0.031	0.503
n-Butane	4.064	132.887	0.082	1.281
i-Pentane	0.965	38.698	0.024	0.353
n-Pentane	1.172	47.093	0.029	0.424
Hexanes	1.532	73.029	0.046	0.630
Heptanes	0.424	23.385	0.015	0.196
Octanes	0.134	8.393	0.005	0.069
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1613.471 0.954 12.177  
 Unnormalized Total 107.575

Gross BTU/Real Cu. Ft.  
 (@ 60 deg F, 14.730)

Dry = 1624.438

Sat. = 1597.782

Actual = 1624.438

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.492

Butane GPM = 1.784

Gasoline GPM = 1.672

26# Gasoline GPM = 2.953

Total GPM = 12.177

Real Relative Density Calculated = 0.9603

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9932



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00009  
CUST. NO. 33500- 10085

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MONUMENT 8N2	PRESSURE	12 PSIG
COUNTY/STATE	SAN JUAN UT	SAMPLE TEMP	55 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311589	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.139	0.0000	0.00	0.0110
CO2	0.064	0.0000	0.00	0.0010
METHANE	60.307	0.0000	610.49	0.3341
ETHANE	15.875	4.2466	281.57	0.1648
PROPANE	11.057	3.0473	278.85	0.1684
I-BUTANE	1.628	0.5325	53.06	0.0327
N-BUTANE	5.194	1.6377	169.83	0.1042
I-PENTANE	1.202	0.4398	48.20	0.0299
N-PENTANE	1.620	0.5868	65.09	0.0404
HEXANE PLUS	1.914	0.8351	98.40	0.0616
TOTAL	100.000	11.3257	1,605.49	0.9480

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0067
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,617.3
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,589.2
REAL SPECIFIC GRAVITY		0.9551

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,608.5
DRY BTU @ 14.696	1,613.6
DRY BTU @ 14.730	1,617.3
DRY BTU @ 15.025	1,649.7

CYLINDER #	050
CYLINDER PRESSURE	15 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00010  
CUST. NO. 33500- 10090

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MONUMENT 17-E-2	PRESSURE	20 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	47 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311659	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.958	0.0000	0.00	0.0093
CO2	0.071	0.0000	0.00	0.0011
METHANE	67.968	0.0000	688.04	0.3765
ETHANE	14.933	3.9946	264.87	0.1550
PROPANE	8.159	2.2486	205.76	0.1242
I-BUTANE	0.965	0.3157	31.45	0.0194
N-BUTANE	2.976	0.9383	97.31	0.0597
I-PENTANE	0.754	0.2759	30.24	0.0188
N-PENTANE	1.118	0.4049	44.92	0.0279
HEXANE PLUS	2.098	0.9154	107.86	0.0675
TOTAL	100.000	9.0934	1,470.45	0.8593

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

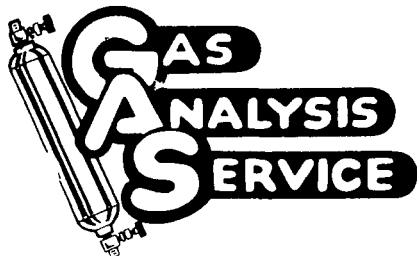
\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0054
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,479.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,453.8
REAL SPECIFIC GRAVITY		0.8647

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,471.5
DRY BTU @ 14.696	1,476.1
DRY BTU @ 14.730	1,479.5
DRY BTU @ 15.025	1,509.2

CYLINDER #	005
CYLINDER PRESSURE	22 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00008  
CUST. NO. 33500- 10000

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	CAJON 8D1	PRESSURE	12 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	42 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION	ISMAY	SAMPLED BY	FGM
CUST.STN.NO.	202E311625	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.802	0.0000	0.00	0.0078
CO2	0.070	0.0000	0.00	0.0011
METHANE	58.781	0.0000	595.04	0.3256
ETHANE	18.008	4.8171	319.41	0.1870
PROPANE	12.630	3.4808	318.52	0.1923
I-BUTANE	1.567	0.5126	51.07	0.0314
N-BUTANE	4.747	1.4967	155.22	0.0953
I-PENTANE	0.925	0.3385	37.09	0.0230
N-PENTANE	1.207	0.4372	48.50	0.0301
HEXANE PLUS	1.263	0.5510	64.93	0.0406
TOTAL	100.000	11.6339	1,589.78	0.9341

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0065
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,600.8
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,573.0
REAL SPECIFIC GRAVITY		0.9408

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,592.1
DRY BTU @ 14.696	1,597.1
DRY BTU @ 14.730	1,600.8
DRY BTU @ 15.025	1,632.9

CYLINDER #	AZT047
CYLINDER PRESSURE	15 PSIG
DATE RUN	12/26/00
ANALYSIS RUN BY	AMY JUSTICE

CQM, INC. \_\_\_\_\_ N-SITE GAS ANALYSIS

T 2

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 14:36:40  
 Station #: 78-144 Sample Date: 06/14/2001  
 Station Name: MON/CAJON MESA Flowing Pressure: 0 psig  
 Field: RTM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET

File: c:\mti\ezchrom\200\chrom\78\_14406.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.989	0.000	0.010	
Methane	63.867	646.549	0.354	
CO2	0.044	0.000	0.001	
Ethane	15.724	278.896	0.163	4.205
H2S (APPROX)	0.000	0.000	0.000	
Propane	9.810	247.400	0.149	2.703
i-Butane	1.181	38.494	0.024	0.386
n-Butane	3.638	118.957	0.073	1.147
i-Pentane	0.900	36.091	0.022	0.329
n-Pentane	1.247	50.107	0.031	0.452
Hexanes	1.943	92.621	0.058	0.799
Heptanes	0.514	28.348	0.018	0.237
Octanes	0.143	8.957	0.006	0.073
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1546.420 0.908 10.332  
 Unnormalized Total 108.337

Gross BTU/Real Cu. Ft.

(@ 60 deg F, 14.730)

Dry = 1555.948

Sat. = 1530.436

Actual = 1555.948

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 2.703

Butane GPM = 1.533

Gasoline GPM = 1.890

26# Gasoline GPM = 3.037

Total GPM = 10.332

Real Relative Density Calculated = 0.9133

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939



2030 AFTON PLACE  
FARMINGTON, N.M. 87401  
(505) 325-6622

ANALYSIS NO. HSC00018  
CUST. NO. 33500- 10035

### WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	BIG SKY 6E	PRESSURE	17 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	21 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/23/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E430640	FOREMAN/ENGR.	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.658	0.0000	0.00	0.0160
CO2	0.037	0.0000	0.00	0.0006
METHANE	66.226	0.0000	670.41	0.3668
ETHANE	17.222	4.6069	305.47	0.1788
PROPANE	9.526	2.6254	240.24	0.1450
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.724	0.8589	89.07	0.0547
I-PENTANE	0.496	0.1815	19.89	0.0124
N-PENTANE	0.553	0.2003	22.22	0.0138
HEXANE PLUS	0.546	0.2382	28.07	0.0176
TOTAL	100.000	9.0422	1,408.36	0.8260

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0048
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,415.4
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,390.8
REAL SPECIFIC GRAVITY		0.8302

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,407.7
DRY BTU @ 14.696	1,412.2
DRY BTU @ 14.730	1,415.4
DRY BTU @ 15.025	1,443.8

CYLINDER #	007
CYLINDER PRESSURE	17 PSIG
DATE RUN	12/28/00
ANALYSIS RUN BY	GINA HANON

CQM, INC.  
1427 W. AZTEC, BLVD. #3 AZTEC, NM 87410  
505-333-2003

Source: ELKHORN FIELD SERVICE      Report Date: 06/19/2001 12:14:41  
Station #: 78-132      Sample Date: 06/13/2001  
Station Name: HILLSIDE 6-C *Big Sky*      Flowing Pressure: 0      psig  
Field: RIM SOUTHWEST      Flowing Temp.: 0      F

Method: c:\mti\ezchrom\200\methods\sour2.met  
File: c:\mti\ezchrom\200\chrom\78\_13206.1

### Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.876	0.000	0.018	
Methane	65.826	666.381	0.365	
CO2	0.039	0.000	0.001	
Ethane	16.765	297.360	0.174	4.484
H2S (approx)	0.000	0.000	0.000	
Propane	9.827	247.829	0.150	2.708
i-Butane	0.865	28.194	0.017	0.283
n-Butane	2.514	82.204	0.050	0.793
i-Pentane	0.633	25.384	0.016	0.229
n-Pentane	0.787	31.623	0.020	0.288
Hexanes	0.689	32.844	0.021	0.283
Heptanes	0.166	9.155	0.006	0.077
Octanes	0.013	0.814	0.001	0.007

Ideal Total	100.000	1421.788	0.837	9.151
Unnormalized Total	94.894			

Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730)	Gasoline Content
Dry = 1428.837	Propane GPM = 2.708
Sat. = 1405.444	Butane GPM = 1.076
Actual = 1428.837	Gasoline GPM = 0.884
( 0.000 lbs. water/MMCF)	26# Gasoline GPM = 1.676
	Total GPM = 9.151

Real Relative Density Calculated = 0.8408  
On-Site Relative Density = 0.0000

Gas Compressibility = 0.9951



Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☒ Well File \_\_\_\_\_ ☐ Suspense \_\_\_\_\_ ☐ Other \_\_\_\_\_  
(Return Date) \_\_\_\_\_  
(Loc.) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng. \_\_\_\_\_ (To-Initials) \_\_\_\_\_  
(API No.) \_\_\_\_\_

1. Date of Phone Call: 9/12/01 Time: 9:50

2. DOGM Employee (name) Dustin Doucet ( ☐ Initiated Call)  
Talked to:  
Name Wayne Townsend ( ☐ Initiated Call) - Phone No. (505) 599 6359  
of (Company/Organization) BLM

3. Topic of Conversation: Gas Flaring in Aneth area - bad western  
Gas Resources Pipeline <sup>deto</sup>

4. Highlights of Conversation: Wayne has had several meetings with  
Navajo Nation, Navajo EPA, Navajo minerals, Navajo Health and Human Services,  
the Department of Justice, US EPA, Texaco, Exxon-Mobil, western Gas & the  
Red Mesa & Aneth chapters. 12.5 miles of pipeline (downstream from  
Aneth Plant) no good. Options: a) rebuild 12.5 miles of pipeline - Row expires  
2005 western's renegotiation with Navajo to extend Row was denied (main choice) 1 month  
to rebuild once OK given from Navajo etc. b) Use 20" Questar oil pipeline [1950's - no go]  
c) Use 6" Conoco Line - convert to gas and truck liquids from plant - talks broke down 9/11/01.  
Everyone in agreement to keep wells producing - some verbal complaints from public, nothing  
in writing yet. Red Mesa & Aneth chapters wanted full shut-in. Current plan: EPA sending  
Letter today to flare gas thru Plant (gas will be metered). The gas will be counted as  
cost gas - no royalty due - because out of control of companies (producers). H<sub>2</sub>S and other  
safety monitors will be set up around plant and monitor health risks, etc. BLM  
has approved all flaring until Oct. 15, 2001 associated w/ this matter. Probably  
won't be back into operation before then though.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

RIM SOUTHWEST CORPORATION

3a. Address

87499

P.O. Box 145, Farmington, NM

3b. Phone No. (include area code)

(505) 327-5531

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Serial No.

See Attached

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan county  
Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Vent/Flare</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Gas</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that RIM Southwest Corporation is requesting additional approval to continue to vent/flare gas from the attached wells until December 1, 2001 or until the Aneth plant is put back on line, whichever occurs first. Please reference our previous sundry notice dated 8/29/01 which gave approval for this action through October 15, 2001.

Attachment

Accepted by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 11/19/01  
Initials: CRO

Date: 11/19/01

By: [Signature]

By: Dec 1, 2001

Federal Approval of This  
Action Is Necessary

cc: State of Utah  
Navajo Nation-Minerals  
Navajo Nation EPA-Air  
Quality  
BIA - Gallup, NM

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

W. J. Holcomb

Title Vice President

Signature

[Signature]

Date 11/01/01

NOV 09 2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

DIVISION OF  
OIL GAS AND MINING

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RIM SOUTHWEST CORPORATION**

			<b>ESTIMATED GAS</b>	
			<b>VENTED</b>	
<b>LEASE NUMBER</b>	<b>WELL NAME</b>	<b>SEC-TWN-RNG</b>	<b>MCF/DAY</b>	
1420603373	Big Sky 6E (6L)	06-42S-25E	19	43-037-31714
NOC 14205297				
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	43-037-31060
NOG 8707-1162	Sahgzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25e	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
		<b>TOTAL AVERAGE</b>	<b>254</b>	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**FILE**

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**RIM SOUTHWEST CORPORATION**

3a. Address

**87499**

3b. Phone No. (include area code)

**P.O. Box 145, Farmington, NM**

**(505) 327-5531**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Serial No.

**See Attached**

6. If Indian, Allottee or Tribe Name

**Navajo Nation**

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**San Juan County  
Utah**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Flare Gas</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Please be advised that as of approximately 3:00 p.m. Thursday, November 15, 2001 the attached wells were put back on line for gas sales through the Aneth pipeline/plant.**

**CC: State of Utah**

**Navajo Nation-Minerals  
Navajo Nation EPA - Air Quality  
BIA - Gallup, NM**

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**W. J. Holcomb**

Title **Vice President**

Signature

*[Handwritten Signature]*

Date **11/19/01**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

**RECEIVED**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

**NOV 23 2001**

Office

**DIVISION OF  
OIL, GAS AND MINING**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RIM SOUTHWEST CORPORATION**

			<b>ESTIMATED GAS</b>	
			<b>VENTED</b>	
<b>LEASE NUMBER</b>	<b>WELL NAME</b>	<b>SEC-TWN-RNG</b>	<b>MCF/DAY</b>	
1420603373	Big Sky 6E (6L)	06-42S-25E	19	43-037-31714
NOC 14205297				
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	43-037-31060
NOG 8707-1162	Sahgzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25E	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
<b>TOTAL AVERAGE</b>			<b>284</b>	

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change**

Merger

The operator of the well(s) listed below has changed, effective:

**12/1/2000****FROM: (Old Operator):**

N9290-Harken Southwest Corporation  
5 Inverness Drive, East  
Denver, CO 80112

Phone: (303) 799-9828

**TO: ( New Operator):**

N1715-Rim Southwest Corporation  
PO Box 145  
Farmington, NM 87499

Phone: (505) 327-5531

CA No.

Unit:

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO TRIBAL 32-26	26	400S	220E	4303731060	9990	Indian	OW	S
NAVAJO TRIBAL 14-10	10	400S	240E	4303730977	10130	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	240E	4303730971	9420	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
RUNWAY 10C-5A	10	400S	250E	4303731597	11152	Indian	OW	P
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	P
STERLING 36L-1	36	410S	230E	4303731595	11224	Indian	OW	S
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
JACK 31G	31	410S	240E	4303731709	11497	Indian	OW	S
CLAY HILL CANYON 32D	32	410S	250E	4303731741	11734	Indian	OW	TA
NORTH HERON 35C	35	410S	250E	4303731616	11479	Indian	OW	S
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
NAVAJO TRIBAL 41-2	02	420S	240E	4303731041	9437	Indian	OW	P
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
BIG SKY 6E (6L) 1	06	420S	250E	4303731714	11722	Indian	OW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/27/20012. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/27/20013. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/30/2003

4. Is the new operator registered in the State of Utah: YES Business Number: 794466-0143
5. If NO, the operator was contacted on: \_\_\_\_\_
6. (R649-9-2)Waste Management Plan has been received on: 8/13/2003

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: not given

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 8/26/2003
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 8/26/2003
3. Bond information entered in RBDMS on: n/a
4. Fee wells attached to bond in RBDMS on: n/a

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: n/a

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: n/a

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: RLB0001937

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number n/a
2. The FORMER operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

Because this was a merger, all LA and PA wells belong to Rim Southwest also. However, they are still on our computer as Harken Southwest because no list was provided to move them.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: NOG-8308-1033
2. NAME OF OPERATOR: RIM Southwest Corporation	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Nation
3. ADDRESS OF OPERATOR: 5 Inverness Drive E. CITY Englewood STATE CO ZIP 80112	7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2000 FSL & 2080 FWL	8. WELL NAME and NUMBER: Navajo Tribal 23-13
PHONE NUMBER: (303) 799-9828	9. API NUMBER: 4303730971
10. FIELD AND POOL, OR WILDCAT: Greater Aneth	

FOOTAGES AT SURFACE: 2000 FSL & 2080 FWL

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 40S 24E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Operator on the above oil well has changed effective November 1, 2003:

Old Operator: RIM Southwest Corporation  
5 Inverness Drive East  
Englewood Colorado, 80112  
(303) 799-9828

N1715

New Operator: Navajo Nation Oil & Gas Co., Inc.  
Post Office Box 4439  
Window Rock, Arizona 86515  
(928) 871-4880

*William J. ...*  
N2550

RECEIVED

JAN 20 2004

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Rene' Morin</u>	TITLE <u>Vice President</u>
SIGNATURE <u><i>Rene' Morin</i></u>	DATE <u>11/1/2003</u>

(This space for State use only)



### 3. FILE

### Designation of Agent/Operator

## Merger

**11/1/2003**

**TO: ( New Operator):**  
N2550-Navajo Nation Oil & Gas Co., Inc.  
PO Box 4439  
Window Rock, AZ 86515  
**Phone: 1-(928) 871-4880**

Unit:

[illegible]

**Enter date after each listed item is completed**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/20/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/20/2004
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/31/2004
4. Is the new operator registered in the State of Utah: YES Business Number: \* called for
5. If **NO**, the operator was contacted contacted on: \* 3/31/2004

6. (R649-2)Waste Management Plan has been received on:

\* called for

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA 12/1/2003

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to**

**Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 12/12/03\*

\* EPA approval per their jurisdiction and their permit.

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 3/31/2004

2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 3/31/2004

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

5. Injection Projects to new operator in RBDMS on: 3/31/2004

6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: n/a

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: n/a

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: RLB0006761 and  
RLB0006210 for injection well

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number n/a

2. The FORMER operator has requested a release of liability from their bond on: N/A

The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

Rim SW lost lease; Navajo Nation Oil & Gas obtained lease

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
NOG 8308-1033

6. If Indian, Allottee or Tribe Name  
Navajo Tribal

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Navajo Nation Oil & Gas Co.

3a. Address  
P.O. Box 4439, Window Rock, AZ 86515

3b. Phone No. (include area code)  
(928) 871-4880

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.  
Navajo Tribal 23-13

9. API Well No.  
43-037-30971

10. Field and Pool or Exploratory Area  
Greater Aneth

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2000' FSL 2080' FWL  
NE SW, Sec. 13 T40S, R24E

11. Country or Parish, State  
San Juan, UT

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Site Security</u>	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Diagram</u>	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Attached is the revised site security diagram for Navajo Tribal 23-13 following recent tank replacements. Well returned to production 08/23/2009.

CC:  
State of Utah Division of Oil & Gas Mining  
~~Navajo Nation Minerals~~  
BLM (4 copies)

RECEIVED

OCT 05 2009

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
John C. Hatch

Title Operations Engineer - Navajo Nation Oil & Gas Co.

Signature

Date 09/30/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

# Valve Sealing Status:

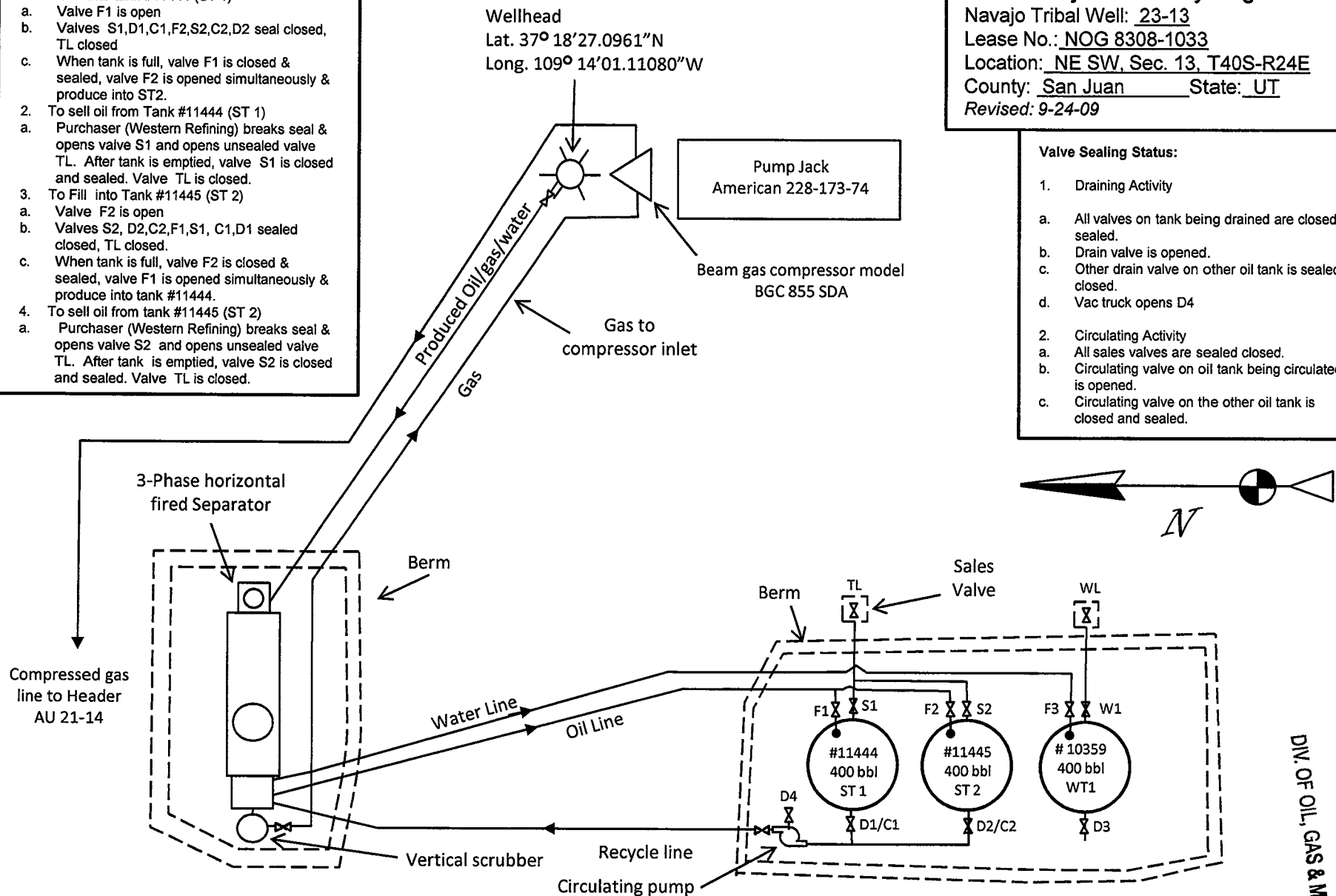
1. To fill into tank #11444 (ST 1)
  - a. Valve F1 is open
  - b. Valves S1,D1,C1,F2,S2,C2,D2 seal closed, TL closed
  - c. When tank is full, valve F1 is closed & sealed, valve F2 is opened simultaneously & produce into ST2.
2. To sell oil from Tank #11444 (ST 1)
  - a. Purchaser (Western Refining) breaks seal & opens valve S1 and opens unsealed valve TL. After tank is emptied, valve S1 is closed and sealed. Valve TL is closed.
3. To Fill into Tank #11445 (ST 2)
  - a. Valve F2 is open
  - b. Valves S2, D2,C2,F1,S1, C1,D1 sealed closed, TL closed.
  - c. When tank is full, valve F2 is closed & sealed, valve F1 is opened simultaneously & produce into tank #11444.
4. To sell oil from tank #11445 (ST 2)
  - a. Purchaser (Western Refining) breaks seal & opens valve S2 and opens unsealed valve TL. After tank is emptied, valve S2 is closed and sealed. Valve TL is closed.

## Navajo Nation Oil & Gas Co Tank battery Site Security Diagram

Navajo Tribal Well: 23-13  
Lease No.: NOG 8308-1033  
Location: NE SW, Sec. 13, T40S-R24E  
County: San Juan State: UT  
Revised: 9-24-09

# Valve Sealing Status:

1. Draining Activity
  - a. All valves on tank being drained are closed & sealed.
  - b. Drain valve is opened.
  - c. Other drain valve on other oil tank is sealed closed.
  - d. Vac truck opens D4
2. Circulating Activity
  - a. All sales valves are sealed closed.
  - b. Circulating valve on oil tank being circulated is opened.
  - c. Circulating valve on the other oil tank is closed and sealed.



Note: There are no gas sales

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 OCT 03 2009  
 DIV. OF OIL, GAS & MINING

**SITE SECURITY PLAN  
SE UTAH AREA  
San Juan County, Utah**

The following Site Security Plan will be sufficient to comply with the minimum standards outlined in Vol. 54, No. 36 Section 221.37 of the Federal Register published February 24, 1989, BLM 43CFR3160, Onshore Oil and Gas Order No. 3, Site Security (Attached).

All appropriate valves on lines entering or leaving oil storage tanks will be effectively sealed during the production phase and during the sales phase. The piping and connections in a closed system which are tamper proof or tamper resistant are essentially protected from unauthorized or undocumented entry, but the piping and connections in an open system will be protected. For a minimum of six (6) years The Navajo Nation Oil and Gas Company will maintain a record of seal numbers used and will document on which valve or connections they were used as well as when they were installed and removed. The site facility diagram(s) show(s) which valves are sealed in which positions during both the producing and sales phase.

Where oil is sold via hand gauged volumes, The Navajo Nation Oil and Gas Company will minimize the time that oil is stored on leases to that time needed to accumulate an economic oil run. The Navajo Nation Oil and Gas Company retains oil needed for use on the lease and to provide for delivery of royalty oil.

The Navajo Nation Oil and Gas Company will deal promptly with any accumulations of oil in pits or tanks in accordance with the provisions of applicable NTL's or onshore orders.

The Navajo Nation Oil and Gas Company, with reasonable frequency (daily), will regularly inspect all leases, units, and communitized areas to determine site security and production volumes. The Navajo Nation Oil and Gas Company will retain records of such inspections and measurements for six (6) years. Such records and measurements will be available to any authorized representative upon request.

All facilities at which oil is stored are clearly identified with a sign that contains the name of the operator, the lease serial number (or communitization or unit agreement identification), section, township, and range. On Indian leases, the sign will also include the name of the appropriate tribe and whether the lease is tribal or allotted. In addition, each storage tank is clearly identified by a unique number. The identification will be maintained in legible condition and is clearly apparent to any person at or approaching the sales or transportation point. With regard to the quarter-quarter designation and the unique tank number, any such designation established by State Law or rule will satisfy this requirement.

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**OCT 05 2009**

Any facility identification which is in existence on the effective date of this rule and which meets the basic information herein will satisfy this paragraph until such sign is replaced.

Any person removing oil from a facility by motor vehicle shall possess identification documentation required by applicable NTL's or onshore orders while the oil is being removed and transported.

Theft or mishandling of oil from Federal or Indian lease will be reported to the authorized officer as soon as discovered but not later than the next business day. Said report shall include an estimate of the volume of oil involved. The Navajo Nation Oil and Gas Company will also report such thefts promptly to local law enforcement agencies and internal company security.

**RECEIVED**  
**OCT 05 2009**  
**DIV. OF OIL, GAS & MINING**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>NOG-8308-1033</b>
2. NAME OF OPERATOR: <b>Navajo Nation Oil and Gas company</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Navajo</b>
3. ADDRESS OF OPERATOR: P.O. Box 4439 CITY <b>Window Rock</b> STATE <b>AZ</b> ZIP <b>86515</b>		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2000' FSL 1080' FWL</b>		8. WELL NAME and NUMBER: <b>Navajo Tribal 23-13</b>
PHONE NUMBER: <b>(303) 534-8300</b>		9. API NUMBER: <b>4303730971</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESW 13 40S 24E</b>		10. FIELD AND POOL, OR WILDCAT: <b>Greater Aneth</b>
COUNTY: <b>San Juan</b>		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: <b>6/30/2010</b>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>Tank Replacement</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Existing tank #11445 was taken out of service and removed from location. A new 400bbl steel tank was installed. Tank was strapped per Western Refining and assigned a new tank number, #11513. Per Onshore Order No. 3, a new site security diagram is being submitted (see attachment) showing the new tank.

NAME (PLEASE PRINT) <u>AL ZIER</u>	TITLE <u>Operations Eng. Manager</u>
SIGNATURE <u><i>AL Zier</i></u>	DATE <u>8-9-10</u>

(This space for State use only)

**RECEIVED**  
**AUG 11 2010**

# **Valve Sealing Status:**

1. To fill into tank #11444 (ST 1)
  - a. Valve F1 is open
  - b. Valves S1,D1,C1,F2,S2,C2,D2 seal closed, TL closed
  - c. When tank is full, valve F1 is closed & sealed, valve F2 is opened simultaneously & produce into ST2.
2. To sell oil from Tank #11444 (ST 1)
  - a. Purchaser (Western Refining) breaks seal & opens valve S1 and opens unsealed valve TL. After tank is emptied, valve S1 is closed and sealed. Valve TL is closed.
3. To Fill into Tank #11513 (ST 2)
  - a. Valve F2 is open
  - b. Valves S2, D2,C2,F1,S1, C1,D1 sealed closed, TL closed.
  - c. When tank is full, valve F2 is closed & sealed, valve F1 is opened simultaneously & produce into tank #11444.
4. To sell oil from tank #11513 (ST 2)
  - a. Purchaser (Western Refining) breaks seal & opens valve S2 and opens unsealed valve TL. After tank is emptied, valve S2 is closed and sealed. Valve TL is closed.

## **Navajo Nation Oil & Gas Co Tank battery Site Security Diagram**

Navajo Tribal Well: 23-13

Lease No.: NOG 8308-1033

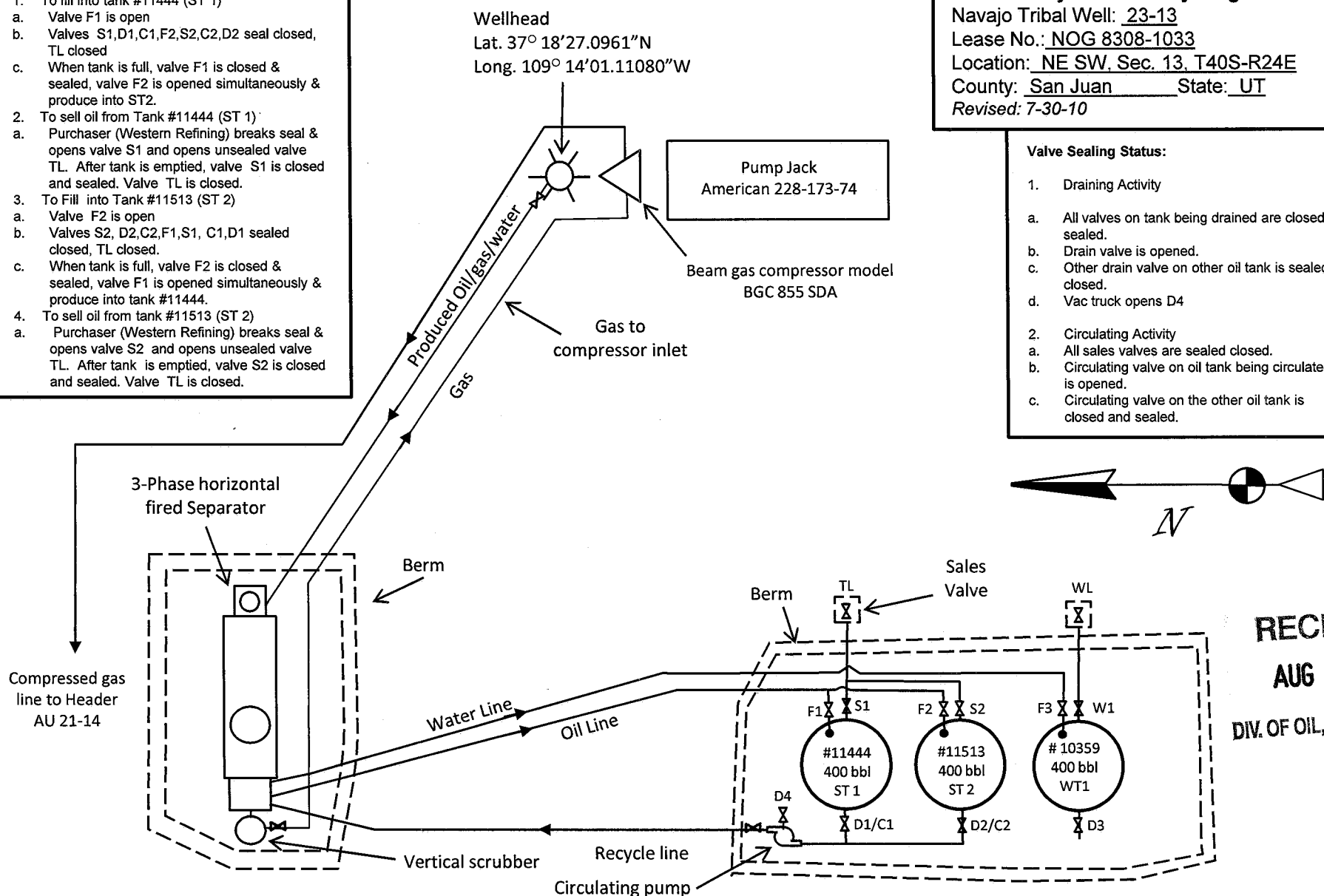
Location: NE SW, Sec. 13, T40S-R24E

County: San Juan State: UT

Revised: 7-30-10

### **Valve Sealing Status:**

1. Draining Activity
  - a. All valves on tank being drained are closed & sealed.
  - b. Drain valve is opened.
  - c. Other drain valve on other oil tank is sealed closed.
  - d. Vac truck opens D4
2. Circulating Activity
  - a. All sales valves are sealed closed.
  - b. Circulating valve on oil tank being circulated is opened.
  - c. Circulating valve on the other oil tank is closed and sealed.



**Note: There are no gas sales**

**RECEIVED**  
**AUG 11 2010**  
**DIV. OF OIL, GAS & MIN. C.**



Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

ROUTING

CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**8/1/2010**

**FROM: (Old Operator):**

N2550- Navajo Oil & Gas Cp.  
 1625 Broadway, Suite 1100  
 Denver, CO 80202

Phone: 1 (303) 534-8300

**TO: ( New Operator):**

N3930- NNOGC Exploration & Production, LLC  
 1625 Broadway, Suite 1000  
 Denver, CO 80202

Phone: 1 (303)534-8300

CA No.

Unit:

N/A

WELL NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List						

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/19/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/19/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 12/31/2012
- Is the new operator registered in the State of Utah: \_\_\_\_\_ Business Number: 8399948-0165
- (R649-9-2)Waste Management Plan has been received on: Not Yet
- Inspections of LA PA state/fee well sites complete on: 12/31/2102
- Reports current for Production/Disposition & Sundries on: 12/31/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA 8/1/2012
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/1/2010
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 12/31/2102
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 12/31/2012
- Bond information entered in RBDMS on: 12/31/2012
- Fee/State wells attached to bond in RBDMS on: 12/31/2012
- Injection Projects to new operator in RBDMS on: 12/31/2012
- Receipt of Acceptance of Drilling Procedures for APD/New on: 12/31/2012

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: N/A
- Indian well(s) covered by Bond Number: RLB0006712
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number N/A
- The **FORMER** operator has requested a release of liability from their bond on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

Navajo Nations Oil Gas Co. (N2550) to NNOGC Exploration Production, LLC (N3930)  
Effective 8/1/2012

Well Name	Sec	TWP	RNG	API	Entity	Lease	Well Type	Well Status
TOHONADLA 26-OSCAR	26	410S	210E	4303750022		Indian	OW	APD
TOHONADLA 35-F	35	410S	210E	4303750024		Indian	OW	APD
TOHONADLA 2-G	02	420S	210E	4303750027		Indian	OW	APD
TOHONADLA 2-B	02	420S	210E	4303750028		Indian	OW	APD
TOHONADLA 1-C	01	420S	210E	4303750029		Indian	OW	APD
TOHONADLA 2-BRAVO	02	420S	210E	4303750030		Indian	OW	APD
TOHONADLA 1-F	01	420S	210E	4303750031		Indian	OW	APD
TOHONADLA 2-H	02	420S	210E	4303750032		Indian	OW	APD
TOHONADLA 1-Delta	01	420S	210E	4303750033		Indian	OW	APD
TOHONADLA 35-INDIGO	35	410S	210E	4303750034		Indian	OW	APD
TOHONADLA 35-J	35	410S	210E	4303750035		Indian	OW	APD
UTE CANYON 25G-O	25	410S	210E	4303731913	18823	Indian	OW	DRL
TOHONADLA 35-B	35	410S	210E	4303750023	18824	Indian	OW	DRL
UTE CYN 23-INDIGO	23	410S	210E	4303731880		Indian	OW	LA
TOHONADLA 35-P	35	410S	210E	4303731886		Indian	OW	LA
TOHONADLA 1-E	01	420S	210E	4303731887		Indian	OW	LA
TOHONADLA 1-D	01	420S	210E	4303731888		Indian	OW	LA
TOHONADLA 26-O	26	410S	210E	4303731896		Indian	OW	LA
UTE CYN 23-INDIGO	23	410S	210E	4303731911		Indian	OW	LA
NAVAJO TR 23-1	02	420S	210E	4303715540	6230	Indian	OW	P
DESERT CREEK 2	35	410S	230E	4303715868	6270	Indian	OW	P
TOHONADLA 1	35	410S	210E	4303715872	11202	Indian	OW	P
TOHONADLA 23-35	35	410S	210E	4303715874	11202	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	240E	4303730971	9420	Indian	OW	P
NAVAJO TRIBAL 14-10	10	400S	240E	4303730977	10130	Indian	OW	P
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
TOHONADLA 2-35	35	410S	210E	4303731568	11202	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
TOHONADLA 35-P	35	410S	210E	4303750005	11202	Indian	OW	P
TOHONADLA 1-E	01	420S	210E	4303750006	6230	Indian	OW	P
NAVAJO TRIBAL 41-2	02	420S	240E	4303731041	9437	Indian	OW	PA
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	S
RUNWAY 10C-5A	10	400S	250E	4303731597	11152	Indian	OW	S
UTE CYN 23-P	23	410S	210E	4303731881	17282	Indian	OW	S

**NAVAJO NATION OIL & GAS COMPANY**

**EXPLORATION & PRODUCTION LLC**

1675 Broadway, Suite 1100 • Denver, Colorado • 80202

Telephone (303) 534-8300 • FAX (303) 534-1405



September 18, 2012

Utah Division of Oil, Gas and Mining  
c/o Rachel Medina  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

**RECEIVED**  
**SEP 19 2012**  
DIV. OF OIL, GAS & MINING

RE: Change of Operator Name and Address for Wells

Dear Rachel,

I am including with this letter several original FORM 9 to change the operator on wells. This probably will be done in two steps.

1. (16 wells) Change of Operator from RIM Southwest Corporation to Navajo Nation Oil & Gas Co.
2. (Same 16 wells) Change of Operator from Navajo Nation Oil & Gas Co. to NNOGC Exploration and Production, LLC.

We have recently registered our LLC with the State of Utah. The Utah Entity Number for NNOGC Exploration and Production, LLC is: 8399948-0165. Also, a new DOGM No. has been applied for for the LLC.

The name and address change is as follows:

OLD: Navajo Nation Oil & Gas Co.  
1675 Broadway, Suite 1100  
Denver, CO 80202  
(DOGM Operator No. N2550)

NEW: NNOGC Exploration and Production, LLC  
1625 Broadway, Suite 1000  
Denver, CO 80202

Should you require any additional information please contact me at 303-534-8300.

Sincerely,

Katie Hynes  
Associate Landman

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
Navajo Nation Oil & Gas Co.

3. ADDRESS OF OPERATOR:  
1675 Broadway, Suite 1100 CITY Denver STATE CO ZIP 80202

PHONE NUMBER:  
(303) 534-8300

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: See Attached List

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

5. LEASE DESIGNATION AND SERIAL NUMBER:  
See Attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
Navajo Nation

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
See Attached

9. API NUMBER:  
Various

10. FIELD AND POOL, OR WILDCAT:  
Various

COUNTY: San Juan

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Navajo Nation Oil and Gas Co. has registered its new entity with the State of Utah. The Operator Name and Address change applies to all wells currently operated by DOGm No. N2550 (see attachment).

The Utah Entity Number for the LLC is: 8399948-0165.

The new Entity is:

NNOGC Exploration and Production, LLC  
1625 Broadway, Suite 1000  
Denver, CO 80202

NEW DOGm No.: 3930

Bond No. RLB0006712

Effective: July 10, 2010

NAME (PLEASE PRINT) Lauren Germinario

TITLE Land Manager

SIGNATURE

APPROVED

9/14/12

(This space for State use only)

DEC 31 2012

RECEIVED

DIV. OIL GAS & MINING  
BY: Rachel Medina

SEP 17 2012

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached
2. NAME OF OPERATOR: Navajo Nation Oil & Gas Co		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Nation
3. ADDRESS OF OPERATOR: P.O. Box 5069 CITY Window Rock STATE AZ ZIP 86515		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE:		8. WELL NAME and NUMBER: See Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: Various
		10. FIELD AND POOL, OR WILDCAT: Various
		COUNTY: San Juan
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Navajo Nation Oil & Gas Co. has registered its new entity with the State of Utah. The name and address change applies to all the wells that have recently changed from RIM Southwest Corporation to Navajo Nation Oil & Gas Co. (DOGM No. N2550)

The Utah Entity Number for the LLC is: 8399948-0165

Note: A new DOGM No. has been applied for NNOGC Exploration and Production, LLC

Please see the attached list of wells that will now be operated by:

NNOGC Exploration and Production, LLC  
1625 Broadway, Suite 1000  
Denver, CO 80202

All of these wells are covered by Bond No. RLB0006712

Effective: Aug 1, 2012

NAME (PLEASE PRINT) Lauren Germinario	TITLE Land Manager
SIGNATURE <i>Lauren Germinario</i>	DATE 9/18/2012

(This space for State use only) **APPROVED**

DEC 31 2012

DIV. OIL GAS & MINING

BY: *Rachael Medina*

(See Instructions on Reverse Side)

RECEIVED  
SEP 19 2012  
DIV. OF OIL GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> NOG-8308-1033
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO
<b>2. NAME OF OPERATOR:</b> NNOGC EXPLORATION & PRODUCTION, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1625 Broadway, Suite 1000 , Denver , CO, 80202		<b>8. WELL NAME and NUMBER:</b> NAVAJO TRIBAL 23-13
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2000 FSL 2080 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 13 Township: 40.0S Range: 24.0E Meridian: S		<b>9. API NUMBER:</b> 43037309710000
<b>PHONE NUMBER:</b> 303 910-9525 Ext		<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH
<b>COUNTY:</b> SAN JUAN		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/6/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Navajo Nation has had this well shut in from April 2013 to May 6, 2014 due to making excessive water.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> May 14, 2014		
<b>NAME (PLEASE PRINT)</b> Rhonda Padilla	<b>PHONE NUMBER</b> 505 599-6060	<b>TITLE</b> Executive Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/13/2014	

**Reset Form****STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: NOG-8308-1033
2. NAME OF OPERATOR: Navajo Nation Oil & Gas		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Nation
3. ADDRESS OF OPERATOR: P.O. Box 4439 CITY Window Rock STATE AZ ZIP 86515		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2000' FSL & 2080' FWL		8. WELL NAME and NUMBER: Navajo Tribal 23-13
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 40S 24E		9. API NUMBER: 4303730971
STATE: UTAH		10. FIELD AND POOL, OR WILDCAT: Aneth

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
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	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	_____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Navajo Nation has had this well shut in from April 30, 2013 to May 6, 2014 due to making excessive water.

NAME (PLEASE PRINT) <u>Tim Phillips</u>	TITLE <u>Sr. Petroleum Engineer</u>
SIGNATURE <u>Tim Phillips</u>	DATE <u>5/13/2014</u>

(This space for State use only)

## INSTRUCTIONS

**This form shall be submitted by the operator to show the intention and/or completion of the following:**

- miscellaneous work projects and actions for which other specific report forms do not exist;
- all other work and events as identified in section 11, Type of Action, or as required by the Utah Oil and Gas Conservation General Rules, including:
  - minor deepening of an existing well bore,
  - plugging back a well,
  - recompleting to a different producing formation within an existing well bore (intent only),
  - reperfing the current producing formation,
  - drilling a sidetrack to repair a well,
  - reporting monthly the status of each drilling well.

**This form is not to be used for proposals to**

- drill new wells,
- reenter previously plugged and abandoned wells,
- significantly deepen existing wells below their current bottom-hole depth,
- drill horizontal laterals from an existing well bore,
- drill hydrocarbon exploratory holes such as core samples and stratigraphic tests.

**Use Form 3, Application for Permit to Drill (APD) for such proposals.**

**NOTICE OF INTENT** - A notice of intention to do work on a well or to change plans previously approved shall be submitted in duplicate and must be received and approved by the division before the work is commenced. The operator is responsible for receipt of the notice by the division in ample time for proper consideration and action. In cases of emergency, the operator may obtain verbal approval to commence work. Within five days after receiving verbal approval, the operator shall submit a Sundry Notice describing the work and acknowledging the verbal approval.

**SUBSEQUENT REPORT** - A subsequent report shall be submitted to the division within 30 days of the completion of the outlined work. Specific details of the work performed should be provided, including dates, well depths, placement of plugs, etc.

**WELL ABANDONMENT** - Proposals to abandon a well and subsequent reports of abandonment should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, and method of parting of any casing, liner, or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

In addition to any Sundry Notice forms submitted, **Form 8, Well Completion or Recompletion Report and Log** must be submitted to the division to report the results of the following operations:

- completing or plugging a new well,
- reentering a previously plugged and abandoned well,
- significantly deepening an existing well bore below the current bottom-hole depth,
- drilling horizontal laterals from an existing well bore,
- drilling hydrocarbon exploratory holes such as core samples and stratigraphic tests,
- recompleting to a different producing formation.

Send to:

Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



Reset Form

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>NOG-8308-1033</b>
2. NAME OF OPERATOR: <b>Navajo Nation Oil &amp; Gas</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Navajo Nation</b>
3. ADDRESS OF OPERATOR: P.O. Box 4439 CITY Window Rock STATE AZ ZIP 86515		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2000' FSL &amp; 2080' FWL</b> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESW 13 40S 24E</b>		8. WELL NAME and NUMBER: <b>Navajo Tribal 23-13</b>
PHONE NUMBER: <b>(928) 871-4880</b>		9. API NUMBER: <b>4303730971</b>
		10. FIELD AND POOL, OR WILDCAT: <b>Aneth</b>
		COUNTY: <b>San Juan</b>
		STATE: <b>UTAH</b>

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <b>5/6/2014</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Navajo Nation Oil &amp; Gas plans to repair the casing or plug and abandon this well per the attached procedure.

**COPY SENT TO OPERATOR**Date: 5.7.2014Initials: KS

NAME (PLEASE PRINT) Timothy Phillips TITLE Sr. Petroleum Engineer  
SIGNATURE Tim Phillips DATE 4/5/2014

(This space for State use only)

Accepted by the  
Division of  
Oil, Gas and Mining

Federal Approval Of This  
Action Is Necessary

**RECEIVED****MAY 06 2014**

DIV. OF OIL, GAS &amp; MINING

(5/2000)

Date: 5/6/2014  
By: [Signature]  
\* Operator should sign up to submit future  
Sundry's via e-permit system.

(See Instructions on Reverse Side)

## CASING REPAIR PROCEDURE or P&A

May 5, 2014

### Navajo Tribal #23-13

Greater Aneth  
2000' FSL & 2080' FWL, Section 13, T40S, R24E  
San Juan County, Utah, API #43-037-30971  
Long: \_\_\_\_\_ / Lat: \_\_\_\_\_

1. Install and / or test rig anchors. Comply with all BLM and operator safety rules and regulations. Conduct safety meeting for all personnel on location. MOL and RU daylight pulling unit. NU relief line and blow well down; kill with 2% KCl water as necessary. Note: well may have water flow to surface.
2. Remove the polish rod and pressure test the tubing to 1000 PSI. Then POOH with rods and pump.
3. ND wellhead and NU BOP and stripping head; test BOP. TOH with the 2.875" tubing; note depth and quantity of scale or mud, if observed.
4. Rig up wireline unit and run a 5.5" casing gauge ring to 5700'. Set a 5.5" CIBP at 5625'. PU a 4.75" bit and 5.5" string mill and TIH to CIBP. If possible circulate the well clean. Pressure test the casing to 800 PSI.
5. If the casing leaks, then TOH and LD the bit and mill. PU a packer and isolate the casing leak(s) the top and bottom hole. If the holes are greater than 100' apart, then may further isolate casing leaks by using a RBP and packer to isolate the leaking intervals.
6. Call A-Plus Office and NNO&G representative for squeeze cementing instructions. Note: **You must notify the Farmington BLM office and Utah DOG&M before doing any cement squeeze work.**
7. Repair casing leak(s) per instruction with Class B cement. WOC. Drill out cement and pressure test each leak zone to 500#. TOH with bit.
8. Notify the appropriate agency and then pressure test the casing to 500# for 30 minutes; record this test on a chart.
9. **Option A.** Run new 4.75" bit to CIBP and then circulate the well clean with 2% KCL fluid or produced water. Drill out the CIBP and if the perforations are covered with fill then clean out by circulating or bailing. **Option B.** Rig up an air foam unit and unload the well appropriately and then drill out the CIBP and clean out the well to PBTD. Blow well until sufficiently clean.
10. If scale was observed on the 2.875" tubing, consider acidizing the Ismay perforations with 500 gallons 15% HCL acid (with corrosion inhibitors, surfactant and iron additive). Let acid soak 2 to 3 hours before circulating or swabbing the well clean. TOH and LD bit.
11. Run production tubing per instructions provided by NNOO&G. Land tubing at approximately 5750'. ND BOP and NU the wellhead.

## CASING REPAIR PROCEDURE or P&A

May 5, 2014

### Navajo Tribal #23-13

#### Plug & Abandonment Procedure:

---

12. If casing does not test and the decision is made to P&A the well then go to #13. If casing does test then RD and MOL.
13. **Plug #1 (Ismay perforations and top, 5625' – 5513')**: *Pressure test casing to 800 PSI. If casing does not test, then spot or tag subsequent plug as appropriate.* Mix and pump 25 sxs Class B cement above CIBP to isolate the Ismay interval. TOH and WOC. Tag cement.
14. **Plug #2 (Hermosa top, 4700' – 4600')**: Spot 20 sxs Class B cement balanced plug inside casing to cover the Hermosa top. PUH.
15. **Plug #3 (DeChelly top, 2856' – 2756')**: Perforate 4 squeeze holes at 2856'. If the casing tested before perforating, then establish rate into then squeeze holes. Set a 5.5" CR at 2806'. Mix and pump 67 sxs Class B cement, squeeze 50 sxs outside the casing and leave 17 sxs inside to cover the DeChelly top. TOH.
16. **Plug #4 (Chinle top, 1716' – 1616')**: Perforate 4 squeeze holes at 1716'. If the casing tested before perforating, then establish rate into then squeeze holes. Set a 5.5" CR at 1666'. Mix and pump 67 sxs Class B cement, squeeze 50 sxs outside the casing and leave 17 sxs inside to cover the Chinle top. TOH.
17. **Plug #5 (Navajo top, 990' – 890')**: Perforate 4 squeeze holes at 990'. If the casing tested before perforating, then establish rate into then squeeze holes. Set a 5.5" CR at 940'. Mix and pump 67 sxs Class B cement, squeeze 50 sxs outside the casing and leave 17 sxs inside to cover the Navajo top. TOH.
18. **Plug #7 (8-5/8" Surface casing shoe, 556' to Surface)**: Perforate at 556' and establish circulation to surface out the bradenhead valve. Mix approximately 200 sxs cement and pump down the 5.5" casing to circulate good cement out the BH valve. Shut in well and WOC.
19. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

# Navajo Tribal #23-13

## Proposed P&A

Aneth Pool

2000' FSL & 2080' FWL, Section 13, T-40-S, R-24-E,

San Juan County, UT / API #43-037-30971

Today's Date: 5/5/14

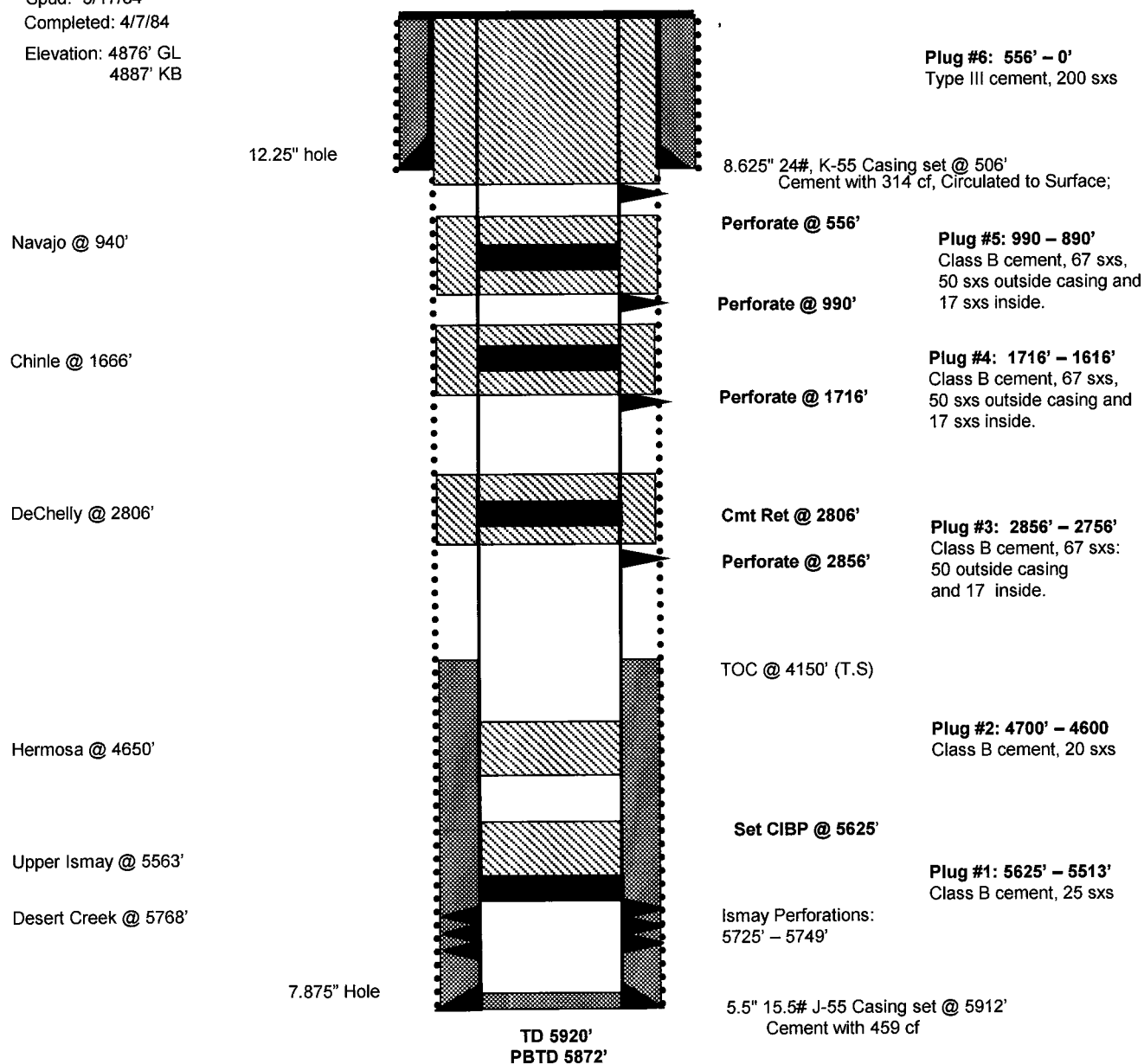
Spud: 3/17/84

Completed: 4/7/84

Elevation: 4876' GL

4887' KB

Lat: \_\_\_\_\_ / Long: \_\_\_\_\_



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																														
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Navajo Nation Oil & Gas Respectfully requests to Temporarily shut in (SI) the above well due to uneconomical production until a recompletion/P&A can be determined. The well is making all water. The well was shut in on 7/10/2014.																																
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b>  <b>Date:</b> July 22, 2014 <b>By:</b> <u><i>Derek Quist</i></u>																																
Please Review Attached Conditions of Approval																																
<b>NAME (PLEASE PRINT)</b> Timothy Phillips	<b>PHONE NUMBER</b> 505 599-6060	<b>TITLE</b> Petroleum Engineer																														
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/17/2014																															



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Sundry Conditions of Approval Well Number 43037309710000**

**R649-3-36-1**